

GenCore version 5.1.4 ps 4578
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OM protein - protein search, using sw model

Run on: May 4, 2003, 13:31:59 ; Search time 17.333 Seconds
(without alignments)
1930.031 Million cell updates/sec

Title: US-09-902-481B-3

Perfect score: 5879
Sequence: 1 FNLDTENAMTFOENARFGQ.....FKROYKDMSEGPGAPQ 1137

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

al number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-Processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:*
1: /cgn2_6/prodata/1/1aa/5A_COMB.pep:*
2: /cgn2_6/prodata/1/1aa/5B_COMB.pep:*
3: /cgn2_6/prodata/1/1aa/5A_COMB.pep:*
4: /cgn2_6/prodata/1/1aa/5B_COMB.pep:*
5: /cgn2_6/prodata/1/1aa/PCTUS_COMB.pep:*
6: /cgn2_6/prodata/1/1aa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	5839	99.3	1153	1 US-08-173-497-3	Sequence 3, Appl1
2	5839	99.3	1153	1 US-08-286-889-3	Sequence 3, Appl1
3	5839	99.3	1153	1 US-08-485-618-3	Sequence 3, Appl1
4	5839	99.3	1153	1 US-08-362-652-3	Sequence 3, Appl1
5	5839	99.3	1153	2 US-08-605-672-3	Sequence 3, Appl1
6	5839	99.3	1153	2 US-08-482-293A-3	Sequence 3, Appl1
7	5839	99.3	1153	2 US-08-943-263-3	Sequence 3, Appl1
8	5839	99.3	1153	4 US-09-193-043-3	Sequence 3, Appl1
9	5839	99.3	1153	4 US-09-688-307A-3	Sequence 3, Appl1
10	5808.5	98.8	1152	4 US-08-476-062A-43	Sequence 43, Appl1
11	5808.5	98.8	1152	5 PCT-US96-01314-43	Sequence 43, Appl1
12	5808.5	98.8	1152	5 PCT-US96-01314-43	Sequence 43, Appl1
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30	3388	57.6	1161	2 US-08-943-363-2	Sequence 2, Appl1
31	3388	57.6	1161	4 US-09-193-043-2	Sequence 2, Appl1
32	3388	57.6	1161	4 US-09-688-307A-2	Sequence 2, Appl1
33	3372.5	57.4	1161	1 US-08-485-618-99	Sequence 99, Appl1
34	3372.5	57.4	1161	2 US-08-605-672-99	Sequence 99, Appl1
35	3372.5	57.4	1161	2 US-08-482-293A-99	Sequence 99, Appl1
36	3372.5	57.4	1161	2 US-08-943-363-99	Sequence 99, Appl1
37	3372.5	57.4	1161	4 US-09-193-043-99	Sequence 99, Appl1
38	3372.5	57.4	1161	4 US-09-688-307A-99	Sequence 99, Appl1
39	3213.5	54.7	1161	4 US-09-193-043-55	Sequence 55, Appl1
40	3213.5	54.7	1161	4 US-09-688-307A-55	Sequence 55, Appl1
41	3206.5	54.5	1161	1 US-08-485-618-55	Sequence 55, Appl1
42	3206.5	54.5	1161	1 US-08-362-652-55	Sequence 55, Appl1
43	3206.5	54.5	1161	2 US-08-605-672-55	Sequence 55, Appl1
44	3206.5	54.5	1161	2 US-08-482-293A-55	Sequence 55, Appl1
45	3206.5	54.5	1161	2 US-08-943-363-55	Sequence 55, Appl1

ALIGNMENTS

RESULT 1
US-08-173-497-3
; Sequence 3, Application US/08173497
; Patent No. 5437958
; GENERAL INFORMATION:
; APPLICANT: Gallatin, W. Michael
; APPLICANT: Van Der Vieren, Monica
; TITLE OF INVENTION: No. 5437958el Human 2 Integrin Alpha
; TITLE OF INVENTION: Subunit
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 233 S. Wacker Drive, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/173,497
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5437958and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 27866/31363
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEFAX: 312-474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ. ID NO. 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1153 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-173-497-3
Query Match 99.3%; Score 5839; DB 1; Length 1153;
Best local Similarity 98.9%; Pred. No. 0;
Matches 1124; Conservative 8; Mismatches 5; Indels 0; Gaps 0;
QY 1 FNLDTENAMTFOENARFGQSVVLOGSRVYVGAPEIIVAAVNOGRSLYQCDVSTGSCPT 60
DB 17 FNLDTENAMTFOENARFGQSVVLOGSRVYVGAPEIIVAAVNOGRSLYQCDVSTGSCPT 76

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QY 61 RLQVPEAVNMSIGLSLAATTSPPQLACGPTVHOTCSSENTYVKGICFLFGSNLRQOPK 120
DB 77 RLQVPEAVNMSIGLSLAATTSPPQLACGPTVHOTCSSENTYVKGICFLFGSNLRQOPK 136
QY 121 FPEALRGCPQEDSDIAFLIDSGSIIIPHDRRMKEIVSTIMEOLKSKKTLPSLMQYSEEF 180
DB 137 FPEALRGCPQEDSDIAFLIDSGSIIIPHDRRMKEIVSTIMEOLKSKKTLPSLMQYSEEF 196
QY 181 RIHFTFEFQNNPNSRLIKRITOLLGRTHATATGARKVRELFINITNGARKNAFKILFL 240
DB 197 RIHFTFEFQNNPNSRLIKRITOLLGRTHATATGARKVRELFINITNGARKNAFKILVI 256
QY 241 TDGEKFGDPLGYEDVYIPEADREGVIRYVIGVDAFRSEKSRQELINTASKPRDHVFOVN 300
DB 257 TDGEKFGDPLGYEDVYIPEADREGVIRYVIGVDAFRSEKSRQELINTASKPRDHVFOVN 316
QY 301 NFEALKTIONQAREKIFALEGTOTGSSSSPEHEMSOGFSAAITNSGPLSTVSSYMWAG 360
DB 317 NFEALKTIONQAREKIFALEGTOTGSSSSPEHEMSOGFSAAITNSGPLSTVSSYMWAG 376
QY 361 GVFLYTSKEKSTFINMTRVDSMDNDAYLYGAAAIILNRVOSLYLGAARYOHLVAMFR 420
DB 377 GVFLYTSKEKSTFINMTRVDSMDNDAYLYGAAAIILNRVOSLYLGAARYOHLVAMFR 436
QY 421 QNTGMESSNANVKTQIGAYFGASLCSVDVDSNSTDLVILGADHYEQRTRGQVSVCP 480
DB 437 QNTGMESSNANVKTQIGAYFGASLCSVDVDSNSTDLVILGADHYEQRTRGQVSVCP 496
QY 481 PROGRAMOCDAVLYXGOGOPWGRFGALTYLGVNNDKLTDAIGAPGEEDNGAYLYF 540
DB 497 PROGRAMOCDAVLYXGOGOPWGRFGALTYLGVNNDKLTDAIGAPGEEDNGAYLYF 556
QY 541 HGTSGSGISPSHSQRIAGSKLSPRLQYFGOSLSGGODLTMDGLVDTLVAGQSHVLLRSQ 600
DB 557 HGTSGSGISPSHSQRIAGSKLSPRLQYFGOSLSGGODLTMDGLVDTLVAGQSHVLLRSQ 616
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DB 617 PVLRVKAIMEFNPREVARNVECDQVYKGEAEVAVCLHVQKSTRDLREGOIQSVVT 676
QY 661 YDLALDSGRPHSRVAVNETKSTROROVGLTOTCETIKQLPNCIEDPVSPIVRLNF 720
DB 677 YDLALDSGRPHSRVAVNETKSTROROVGLTOTCETIKQLPNCIEDPVSPIVRLNF 736
QY 721 SLVGTPLSAFAGNLPRVLAEDAQRFLTALFPEKRCGNDNICODDLSTTFSEMSLCLVYG 780
DB 737 SLVGTPLSAFAGNLPRVLAEDAQRFLTALFPEKRCGNDNICODDLSTTFSEMSLCLVYG 796
QY 781 GPREFNVTVVRNDEDSYRTQVTFPPPLDLSYRKVSTLQNRQSRMRLACESASSTEV 840
DB 797 GPREFNVTVVRNDEDSYRTQVTFPPPLDLSYRKVSTLQNRQSRMRLACESASSTEV 856
QY 841 SGALKSTSCSINHIFPENSEVNTITFDVDSKSLGNKULLKANVTSNNMPTINTTEF 900
DB 857 SGALKSTSCSINHIFPENSEVNTITFDVDSKSLGNKULLKANVTSNNMPTINTTEF 916
QY 901 QLELPPVKAAYVAVVTSHGVSSTKYLNFTASENTRVMOHOVSNLGGORSPLISLVFLVPV 960
DB 917 QLELPPVKAAYVAVVTSHGVSSTKYLNFTASENTRVMOHOVSNLGGORSPLISLVFLVPV 976
QY 961 RLNQTIVIMDRPQVTFSSNLSSTCHTKERLPSHSDFLAELRKAPVNCISIAVCQRIQCDIP 1020
DB 977 RLNQTIVIMDRPQVTFSSNLSSTCHTKERLPSHSDFLAELRKAPVNCISIAVCQRIQCDIP 1036
QY 1021 FPGIOEFNATLKNLSFPMWYIKTSHHLLIVSTAELLPDSDVFTLLPGQCAFPRQSTET 1080
DB 1037 FPGIOEFNATLKNLSFPMWYIKTSHHLLIVSTAELLPDSDVFTLLPGQCAFPRQSTET 1096
QY 1081 KVPBEFVNPLPLIVGSSVGGILLALITALYLGFFKQYKDMSEGGPPGAEPQ 1137
DB 1097 KVPBEFVNPLPLIVGSSVGGILLALITALYLGFFKQYKDMSEGGPPGAEPQ 1153

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RESULT 2
US-08-286-889-3
/ Sequence 3, Application US/08286889
/ Patent No. 5470953
/
/ GENERAL INFORMATION:
/ APPLICANT: Gallatin, W. Mich
/ APPLICANT: Van der Vieren, Monica
/ TITLE OF INVENTION: No. 5470953el Human 2 Integrin Alpha Subunit
/ NUMBER OF SEQUENCES: 51
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
/ STREET: 233 South Wacker Drive, 6300 Seear Tower
/ CITY: Chicago
/ STATE: Illinois
/ COUNTRY: United States
/ ZIP: 60606-6402
/
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patentin Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/286,889
/ FILING DATE:
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/173,497
/ FILING DATE: 23-DEC-1993
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Williams Jr., Joseph A.
/ REGISTRATION NUMBER: P38,659
/ REFERENCE/DOCKET NUMBER: 27866/32168
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 312-474-6300
/ TELEFAX: 312-474-0448
/
/ TELEX: 25-3856
/ INFORMATION FOR SEQ ID NO: 3:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 1153 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/
/ US-08-286-889-3
/
Query Match 99.3%; Score 5839; DB 1; Length 1153;
Best Local Similarity 98.9%; Pred. No. 0;
Matches 1124; Conservative 8; Mismatches 5; Indels 0; Gaps 0;
/
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DB 17 FNDLTENAMTFQENARFGQSVVOLQGSRVVVGAPQEIYAANGSGSLYQCDYSTGSCPE1 76
QY 61 RLQVPEAVNMSIGLSLAATTSPPQLACGPTVHOTCSSENTYVKGICFLFGSNLRQOPK 120
DB 77 RLQVPEAVNMSIGLSLAATTSPPQLACGPTVHOTCSSENTYVKGICFLFGSNLRQOPK 136
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DB 197 RIHFTFEFQNNPNSRLIKRITOLLGRTHATATGARKVRELFINITNGARKNAFKILVI 256
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DB 257 TDGEKFGDPLGYEDVYIPEADREGVIRYVIGVDAFRSEKSRQELINTASKPRDHVFOVN 316
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DB 437 QNTGMESSNANVKTQIGAYFGASLCSVDVDSNGSTDLVLIGAPHYYEQTRGGQVSCPL 496
QY 481 PROGRARWOCDAVLYGQOGPWGRFGALTVLGDVNGDKLTDVAIGAPEGEDNRGAAYLF 540
DB 497 PROGRARWOCDAVLYGQOGPWGRFGALTVLGDVNGDKLTDVAIGAPEGEDNRGAAYLF 556
QY 541 HGTSGSGISPSHSORIASKLSPRLQYFGQSLSGGQDLTMDGLVDLTVAQGHVLLRSQ 600
DB 557 HGTSGSGISPSHSORIASKLSPRLQYFGQSLSGGQDLTMDGLVDLTVAQGHVLLRSQ 616
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DB 617 PVLRVKAIMEFNPREVARNVECDQVYKKGKAGEVRCVCHVQKSTRDLREGQISQVVT 676
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DB 677 YDLALDSGRHSRAVENETKSTRQTVGLTQTCETLKLQPNCTEDVPSPVLRNLF 736
QY 721 SLVGTPLASAFGNLRPVLAEDAQRLEFALPFEKNCQNDNICODDLSTFFSFMSLDCLVYG 780
DB 737 SLVGTPLASAFGNLRPVLAEDAQRLEFALPFEKNCQNDNICODDLSTFFSFMSLDCLVYG 796
QY 781 GPREFNVTVTVRNDGDSYRTQVTFPPPLDLSYRKVSTLONORSQSRWLACESASSTEV 840
DB 797 GPREFNVTVTVRNDGDSYRTQVTFPPPLDLSYRKVSTLONORSQSRWLACESASSTEV 856
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DB 857 SGALKSTSCSINHPIFENSESVTNIIFPDVDSKASLGNKLLKANTVSENNMPTNTEF 916
QY 901 QLELPIVKAAYMVVTSKSTKYLNTFASENTSRVMOHOXOVSNIGORSPLISLVPLVPV 960
DB 917 QLELPIVKAAYMVVTSKSTKYLNTFASENTSRVMOHOXOVSNIGORSPLISLVPLVPV 976
QY 961 RLVQTVIMDRPOVTFSENLSSTCHTKERLPSHSDFLAELRKAPVNCISIAVCQRIQCDIP 1020
DB 977 RLVQTVIMDRPOVTFSENLSSTCHTKERLPSHSDFLAELRKAPVNCISIAVCQRIQCDIP 1036
QY 1021 PFGIOEFNATLKNLSFDWYIKTSNNHLLIVSTAELLFNDVSFTLLPGQCAFVRSQTER 1080
DB 1037 PFGIOEFNATLKNLSFDWYIKTSNNHLLIVSTAELLFNDVSFTLLPGQCAFVRSQTER 1096
QY 1081 KVEPEFVNPPLPLIVGSSVGGLLLLALITALYKLGFFKQYKDMSEGGPGAEPO 1137
DB 1097 KVEPEFVNPPLPLIVGSSVGGLLLLALITALYKLGFFKQYKDMSEGGPGAEPO 1153

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RESULT 3
US-08-485-618-3
Sequence 3, Application US/08485618
Patent No. 5728533

GENERAL INFORMATION:
APPLICANT: Gallatin, W. Michael
APPLICANT: Van der Vlieten, Monica
TITLE OF INVENTION: No. 5728533el Human 2 Integrin Alpha Subunit
NUMBER OF SEQUENCES: 103
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 233 South Wacker Drive, 6300 Sear Tower
CITY: Chicago
STATE: Illinois
COUNTRY: United States
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible

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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,618
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/173,497
FILING DATE: 23-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/286,889
FILING DATE: 5-AUG-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/362,652
FILING DATE: 21-DEC-1994
ATTORNEY/AGENT INFORMATION:
NAME: Williams Jr., Joseph A.
REGISTRATION NUMBER: 38,659
REFERENCE/DOCKET NUMBER: 27866/32797
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
TELEFAX: 312-474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1153 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-485-618-3
Query Match 99.3%; Score 5839; DB 1; Length 1153;
Best Local Similarity 98.9%; Pred. No. 0;
Matches 1124; Conservative 8; Mismatches 5; Indels 0; Gaps 0;
QY 1 FNDTENAMTFOENARFGQSVVQLOGSRVVGAPQEIYAANORGSLYQCYSTGSCPT 60
DB 17 FNDTENAMTFOENARFGQSVVQLOGSRVVGAPQEIYAANORGSLYQCYSTGSCPT 76
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DB 77 RLVQVPEAVNMSIGLSLAATSPOLLACGPTVHQCSENTYKGLCFPLGSLNRQOPK 136
QY 121 FPEALGCPQEDSDIAFLIDGSGSIIIPHPRRMKEIVSTIMEQLKSKTLFSLMOYSEF 180
DB 137 FPEALGCPQEDSDIAFLIDGSGSIIIPHPRRMKEIVSTIMEQLKSKTLFSLMOYSEF 196
QY 181 RIHFFKEFQNNENPRLINPITOLGRTATATGLRKVRRELFINITNGARKNAFKILFL 240
DB 197 RIHFFKEFQNNENPRLINPITOLGRTATATGLRKVRRELFINITNGARKNAFKILFL 256
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DB 257 TDEKFGDPLGYEDVYIPELDREGVIRYVVGDAFSEKSRQELATVASKEPPDHYFOAN 316
QY 301 NPEALKTVONQOLREKIFALEGTQGTGSSSFEHMSQEGSAATTSNGPLISTVGSYDMAG 360
DB 317 NPEALKTVONQOLREKIFALEGTQGTGSSSFEHMSQEGSAATTSNGPLISTVGSYDMAG 376
QY 361 GVEFLYSKEKSTFINMTRVDSMDNDAYLGAAAIIILNRVQSLVLAGPRYOHIGLVAMFR 420
DB 377 GVEFLYSKEKSTFINMTRVDSMDNDAYLGAAAIIILNRVQSLVLAGPRYOHIGLVAMFR 436
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DB 437 QNTGMESSNANVKTQIGAYFGASLCSVDVDSNGSTDLVLIGAPHYYEQTRGGQVSCPL 496
QY 481 PROGRARWOCDAVLYGQOGPWGRFGALTVLGDVNGDKLTDVAIGAPEGEDNRGAAYLF 540
DB 497 PROGRARWOCDAVLYGQOGPWGRFGALTVLGDVNGDKLTDVAIGAPEGEDNRGAAYLF 556
QY 541 HGTSGSGISPSHSORIASKLSPRLQYFGQSLSGGQDLTMDGLVDLTVAQGHVLLRSQ 600

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Db 557 HOTSQSGISPHSQRIASQKUSPFLQYTGQSGLSGQDLTMDGLVDLTGVAQGHVILLRQ 616
Qy 601 PVLRYKAIMERNPREVANVANECDQVYKGAEBVRVCLHVQKSTDRLREQIOSVVT 660
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Qy 961 RLNTQVINDRQVTFSENLSTGCHTKERLPSHSPFLAEKRPVNCISIVCQRICODIP 102
Db 977 RLNTQVINDRQVTFSENLSTGCHTKERLPSHSPFLAEKRPVNCISIVCQRICODIP 103
Qy 1021 FFGIOEEFNATLKGNSLFDWYIKTSHNHLIVSTAELLFNDSVFTLLPGGAFVRSQTEI 108
Db 1037 FFGIOEEFNATLKGNSLFDWYIKTSHNHLIVSTAELLFNDSVFTLLPGGAFVRSQTEI 109
Qy 1081 KVEPEVNPPLVIVGSSVGGLLLALITLALVYLGFPRKQYDMMSEGGPPAEBO 1137
Db 1097 KVEPEVNPPLVIVGSSVGGLLLALITLALVYLGFPRKQYDMMSEGGPPAEBO 1153

RESULT 4
US-08-362-652-3
: Sequence 3, Application US/08362652
: Patent No. 5766850
: GENERAL INFORMATION:
: APPLICANT: Gallatin, W. Michael
: APPLICANT: Van der Vlieten, Monica
: TITLE OF INVENTION: No. 5766850el Human 2 Integrin Alpha Subunit
: NUMBER OF SEQUENCES: 93
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borum
: STREET: 233 South Wacker Drive, 6300 Sear Tower
: CITY: Chicago
: STATE: Illinois
: COUNTRY: United States
: ZIP: 60606-6402
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/362,652
: FILING DATE:
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/173,497
: FILING DATE: 23-DEC-1993
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/286,889
: FILING DATE: 5-AUG-1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Williams Jr., Joseph A.

```

Query Match	99.3%	Score 5839	DB 1	Length 1153	
Best Local Similarity	98.9%	Pred. No. 0			
Matches 1124	Conservative	8	Mismatches	5	Indels 0
<p> REGISTRATION NUMBER: 38,659 REFERENCE/DOCKET NUMBER: 27866/32391 TELECOMMUNICATION INFORMATION: TELEPHONE: 312-474-6300 TELEFAX: 312-474-0448 TELEX: 25-3856 INFORMATION FOR SEQ ID NO: 3: SEQUENCE CHARACTERISTICS: LENGTH: 1153 amino acids TYPE: amino acid STRANDEDNESS: single TOPOLOGY: linear MOLECULE TYPE: protein us-08-362-652-3 </p>					
Query	1	FNLDENAMTFOENARNGSGSVQLOGSRVVVGAPQEIIVAAANORSLYOCDYSTGSCPEI	60		
Ds	17	FNLDENAMTFOENARNGSGSVQLOGSRVVVGAPQEIIVAAANORSLYOCDYSTGSCPEI	76		
Qy	61	RLQVPEAVNNSLSGLSLSATTSPPOLLAAGPTVHOTGSENTYVKGCLCFLFGSINLRFQDPK	120		
Ds	77	RLQVPEAVNNSLSGLSLSATTSPPOLLAAGPTVHOTGSENTYVKGCLCFLFGSINLRFQDPK	136		
Qy	121	FPFALRGCPQEDSDIAFLIDSGSIIIPHPFRMKELVTIMEOLKSKTFLSLMQYSEEF	180		
Ds	137	FPFALRGCPQEDSDIAFLIDSGSIIIPHPFRMKELVTIMEOLKSKTFLSLMQYSEEF	196		
Qy	181	RIHFTFKFQNNPNRSLIKETIQLLGRTHATATGRLKRVRELFNITNGARAKNAFKILEFL	240		
Ds	197	RIHFTFKFQNNPNRSLIKETIQLLGRTHATATGRLKRVRELFNITNGARAKNAFKILEFL	256		
Qy	241	TGDEKFGPDLGEDVYIPELDEGVRYVLGFGDAFRSKRSQELNTVSKPRPDHVFQAN	300		
Ds	257	TGDEKFGPDLGEDVYIPELDEGVRYVLGFGDAFRSKRSQELNTVSKPRPDHVFQAN	316		
Qy	301	NFEALKTQNLREKIFAEIGTGTGSSSSFEHMSQEGFSAITNSGPLLSTVSGSYDWAG	360		
Ds	317	NFEALKTQNLREKIFAEIGTGTGSSSSFEHMSQEGFSAITNSGPLLSTVSGSYDWAG	376		
Qy	361	GVFLTYSKESKTFINMTRVDSMDANDAYLYGYAAIILNRVOSLVLAGRYPQHTGLVAMFR	420		
Ds	377	GVFLTYSKESKTFINMTRVDSMDANDAYLYGYAAIILNRVOSLVLAGRYPQHTGLVAMFR	436		
Qy	421	ONTGWMENNAVVKGTQIAYFGASLCSDVDSNGSTDLVLLGAPHYEQTRGGQVSVCL	480		
Ds	437	ONTGWMENNAVVKGTQIAYFGASLCSDVDSNGSTDLVLLGAPHYEQTRGGQVSVCL	496		
Qy	481	PRGQARWQCDAYLYGEGQGPWGRFAALTYLGDVNGDKLTDAVIGADGEEDNRGAVLYF	540		
Ds	497	PRGQARWQCDAYLYGEGQGPWGRFAALTYLGDVNGDKLTDAVIGADGEEDNRGAVLYF	556		
Qy	541	HGTSGSGISPSHSQRIAGSKLSPRLQYTGOSLSGGQDLTMNGVLDLYTGAAGHYLLLRSQ	600		
Ds	557	HGTSGSGISPSHSQRIAGSKLSPRLQYTGOSLSGGQDLTMNGVLDLYTGAAGHYLLLRSQ	616		
Qy	601	PVLKRAKAIMENPREVARNVFECDNQVVKGEAGEVRCVLHVOKSTRDLREGQIQSVVT	660		
Ds	617	PVLKRAKAIMENPREVARNVFECDNQVVKGEAGEVRCVLHVOKSTRDLREGQIQSVVT	676		
Qy	661	YDLALDSGRPHSRVAVNETKNSSTRQTOVLGTOTCEITLKLQLPNCIEDPVSPVYLRLNF	720		
Ds	677	YDLALDSGRPHSRVAVNETKNSSTRQTOVLGTOTCEITLKLQLPNCIEDPVSPVYLRLNF	736		
Qy	721	SLVGLPUSAFQNLPLVLAEDQRLFTLLPPEKNGCNDNITCODDLSITFSFMSLDCVLVNG	780		
Ds	737	SLVGLPUSAFQNLPLVLAEDQRLFTLLPPEKNGCNDNITCODDLSITFSFMSLDCVLVNG	796		
Qy	781	GPREFNVVTVRNQGEDSYRQVTFPPLDLSYRKVSTLQNRQSRQSWRLACESASSTEV	840		

Db 797 GPREFNVTVVRNDGEDSDYRTQVTFEPFLDLSYRKVSTLONORSOSRWLACESASSTEV 856
Qy 841 SGALKSTSCSINHPIPEENSEVTENITFDVDSKASLGKLLKANTSENMPRTKTEP 900
Db 857 SGALKSTSCSINHPIPEENSEVTENITFDVDSKASLGKLLKANTSENMPRTKTEP 916
Qy 901 QLELPVKYAVVYVWVTSHTGVTXYLNTFASENTSRVMOHQYVSNLQGRSLPISLVLPV 960
Db 917 QLELPVKYAVVYVWVTSHTGVTXYLNTFASENTSRVMOHQYVSNLQGRSLPISLVLPV 976
Qy 961 RLNQYTIWDRPQVTPFSBNSSTCHTKERLPSSHDFLAELRKAPVNCSTAVCORIOCDIP 1020
Db 977 RLNQYTIWDRPQVTPFSBNSSTCHTKERLPSSHDFLAELRKAPVNCSTAVCORIOCDIP 1036
Qy 1021 FPGIOEFNATLKGNSLFDVYIKTSHNHLIYVSTAEILFNDVSFTLLPGOGAFVRSOTET 1080
Db 1037 FPGIOEFNATLKGNSLFDVYIKTSHNHLIYVSTAEILFNDVSFTLLPGOGAFVRSOTET 1096
Qy 1081 KVEPFEVNPPLPIVSSVGGLLLLALITAAVYLGFFKQYKDMSEGGPPGAEPQ 1137
1097 KVEPFEVNPPLPIVSSVGGLLLLALITAAVYLGFFKQYKDMSEGGPPGAEPQ 1153

RESULT 5

US-08-605-672-3
Sequence 3, Application US/08605672
Patent No. 5817515
GENERAL INFORMATION:
APPLICANT: Gallatin, W. Michael
APPLICANT: Van der Vaeren, Monica
TITLE OF INVENTION: No. 5817515el Human 2 Integrin Alpha Subunit
NUMBER OF SEQUENCES: 103
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 233 South Wacker Drive, 6300 Sear Tower
CITY: Chicago
STATE: Illinois
COUNTRY: United States
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/605,672
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/173,497
FILING DATE: 23-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/286,889
FILING DATE: 5-AUG-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/362,652
FILING DATE: 21-DEC-1994
ATTORNEY/AGENT INFORMATION:
NAME: Williams Jr., Joseph A.
REGISTRATION NUMBER: 38,659
REFERENCE/DOCKET NUMBER: 27866/32684
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
TELEFAX: 312-474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1153 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-605-672-3

Query Match 99.3%; Score 5839; DB 2; Length 1153;
Best Local Similarity 98.9%; Pred. No. 0;
Matches 1124; Conservative 8; Mismatches 5; Indels 0; Gaps 0;

Qy 1 FNDLTENAMTFOENARFGQSVVOLQGSRVVVGAPQEIYAANQSGSLYQCDYSTGSCBPI 60
Db 17 FNDLTENAMTFOENARFGQSVVOLQGSRVVVGAPQEIYAANQSGSLYQCDYSTGSCBPI 76
Qy 61 RLQVPEAVNMSLGLSIAATTSPPQLACGPTVHOTCSNTYVKGLCFPGSNLRQOPK 120
Db 77 RLQVPEAVNMSLGLSIAATTSPPQLACGPTVHOTCSNTYVKGLCFPGSNLRQOPK 136
Qy 121 FPEALRGCPQEDSDIAFLIDSGSIIIPHDPRMKEIVSTIMEQLKSKTLPFLMQSEEF 180
Db 137 FPEALRGCPQEDSDIAFLIDSGSIIIPHDPRMKEIVSTIMEQLKSKTLPFLMQSEEF 196
Qy 181 RIHFTPEKEFQNNPNRSLIKPITOLLGRTHTATGLRKVRELFNITNGARKNAFKILFLL 240
Db 197 RIHFTPEKEFQNNPNRSLIKPITOLLGRTHTATGLRKVRELFNITNGARKNAFKILVVI 256
Qy 241 TDGEKRGDPLGVEDVPELDREGVIRYVLGFGDAPRSEKSRQELNTVAKPRPDHYFOAN 300
Db 257 TDGEKRGDPLGVEDVPELDREGVIRYVLGFGDAPRSEKSRQELNTVAKPRPDHYFOAN 316
Qy 301 NFPEALKTQONOLREKIFALIEGTQTGSSSFEHEMSOEGPSAITSNGPLSTVGSYDMA 360
Db 317 NFPEALKTQONOLREKIFALIEGTQTGSSSFEHEMSOEGPSAITSNGPLSTVGSYDMA 376
Qy 361 GVFELYTSKESKSTFINNTRVDSQNDVLYGAAAIILNRVQSLVLCAPRYOHIGLVAMER 420
Db 377 GVFELYTSKESKSTFINNTRVDSQNDVLYGAAAIILNRVQSLVLCAPRYOHIGLVAMER 436
Qy 421 QNTGMESNANKGTQIGAYFGASLCSYVDVDSNGSDVLIGAPHYEDTREGQVSVCL 480
Db 437 QNTGMESNANKGTQIGAYFGASLCSYVDVDSNGSDVLIGAPHYEDTREGQVSVCL 496
Qy 481 PRGQARMQCDVLYGEOGQPMGRFGAALTVDVNGDKLTVAIGAPEEDNRGAVLYF 540
Db 497 PRGQARMQCDVLYGEOGQPMGRFGAALTVDVNGDKLTVAIGAPEEDNRGAVLYF 556
Qy 541 HGTSGSGISPSHSQRIAGSKLSPRLQYFGQSLSGGDLTMDGLVDTLTVGAQGHVLLRSQ 600
Db 557 HGTSGSGISPSHSQRIAGSKLSPRLQYFGQSLSGGDLTMDGLVDTLTVGAQGHVLLRSQ 616
Qy 601 PVLRVAIMEFNPREVAVRVFECNDQYVKGXAGEVRVCLAHQKSTRDLRREGQIOSVVT 660
Db 617 PVLRVAIMEFNPREVAVRVFECNDQYVKGXAGEVRVCLAHQKSTRDLRREGQIOSVVT 676
Qy 661 YDLALDSGRPHSRVAVNETKSTRQTOVLGLTQTCETLKLOLPCNTEDPVSPVYLRNLF 720
Db 677 YDLALDSGRPHSRVAVNETKSTRQTOVLGLTQTCETLKLOLPCNTEDPVSPVYLRNLF 736
Qy 721 SLVGTPLSAFGNLRPVLAADAQRLFTALPPEKNCNDNICDDLSITFSFMSLDLVVG 780
Db 737 SLVGTPLSAFGNLRPVLAADAQRLFTALPPEKNCNDNICDDLSITFSFMSLDLVVG 796
Qy 781 GPREFNVTVVRNDGEDSDYRTQVTFEPFLDLSYRKVSTLONORSOSRWLACESASSTEV 840
Db 797 GPREFNVTVVRNDGEDSDYRTQVTFEPFLDLSYRKVSTLONORSOSRWLACESASSTEV 856
Qy 841 SGALKSTSCSINHPIPEENSEVTENITFDVDSKASLGKLLKANTSENMPRTKTEP 900
Db 857 SGALKSTSCSINHPIPEENSEVTENITFDVDSKASLGKLLKANTSENMPRTKTEP 916
Qy 901 QLELPVKYAVVYVWVTSHTGVTXYLNTFASENTSRVMOHQYVSNLQGRSLPISLVLPV 960
Db 917 QLELPVKYAVVYVWVTSHTGVTXYLNTFASENTSRVMOHQYVSNLQGRSLPISLVLPV 976
Qy 961 RLNQYTIWDRPQVTPFSBNSSTCHTKERLPSSHDFLAELRKAPVNCSTAVCORIOCDIP 1020
Db 977 RLNQYTIWDRPQVTPFSBNSSTCHTKERLPSSHDFLAELRKAPVNCSTAVCORIOCDIP 1036

QY 1021 FFGIOEFNATLKNLSFDMYIKTSHNHLIVSTAELLFNDVSFTLLPGQAFVRSQTE 1080
Db 1037 FFGIOEFNATLKNLSFDMYIKTSHNHLIVSTAELLFNDVSFTLLPGQAFVRSQTE 1096
QY 1081 KVEPFEVNPPLIYVSSVGGLLLLITLALYKLGFFKQYKDMSEGGPGABEQ 1137
Db 1097 KVEPFEVNPPLIYVSSVGGLLLLITLALYKLGFFKQYKDMSEGGPGABEQ 1153

RESULT 6
US-08-482-293A-3
Sequence 3, Application US/08482293A
Patent No. 5831029
GENERAL INFORMATION:
APPLICANT: Gallatin, W. Michael
APPLICANT: Van der Vleren, Monica
TITLE OF INVENTION: No. 5831029el Human 2 Integrin Alpha Subunit
NUMBER OF SEQUENCES: 103
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 233 South Wacker Drive, 6300 Sear Tower
City: Chicago
STATE: Illinois
COUNTRY: United States
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/482,293A
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/173,497
FILING DATE: 23-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/286,889
FILING DATE: 5-AUG-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/362,652
FILING DATE: 21-DEC-1994
ATTORNEY/AGENT INFORMATION:
NAME: Williams Jr., Joseph A.
REGISTRATION NUMBER: 38,659
REFERENCE/DOCKET NUMBER: 27866/32684
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
TELEFAX: 312-474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1153 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-482-293A-3

Query Match 99.3%; Score 5839; DB 2; Length 1153;
Best Local Similarity 98.9%; Pred. No. 0;
Matches 1124; Conservative 8; Mismatches 5; Indels 0; Gaps 0;

QY 1 FNDITENAMTFOENARFGOSVVOLOGSRVYVGAPOEIVANOGSGSLYOCDSYTGSCPEI 60
Db 17 FNDITENAMTFOENARFGOSVVOLOGSRVYVGAPOEIVANOGSGSLYOCDSYTGSCPEI 76
QY 61 RLOVPEAVNMSLGLSLAATSPPOLACGFTVHQTSCSENTYVYKGLFGLSNIHQOPQK 120
Db 77 RLOVPEAVNMSLGLSLAATSPPOLACGFTVHQTSCSENTYVYKGLFGLSNIHQOPQK 136
QY 121 FPEALRGCPQEDSDIAFLIDGSGSIIPHDFRMRKEVSTIMEOLKSKTLPJLMQYSEEP 180

Db 137 FPEALRGCPQEDSDIAFLIDGSGSIIPHDFRMRKEVSTIMEOLKSKTLPJLMQYSEEP 196
QY 181 RHFTFEFQNNPNPSLKIPIITOLLGRTATGLKVRRELNITNGARKAFKILFL 240
Db 197 RHFTFEFQNNPNPSLKIPIITOLLGRTATGLKVRRELNITNGARKAFKILFL 256
QY 241 TDGEKFGDPLGYEDVLPEDLREGVIRYVGLFGDAFRSEKSRQELNTVASKPRPDHFOAN 300
Db 257 TDGEKFGDPLGYEDVLPEDLREGVIRYVGLFGDAFRSEKSRQELNTVASKPRPDHFOAN 316
QY 301 NFEALKTIVQNLREKIFALIEGTOTGSSSFHEHMSQEGSAITNSGPLISTYGSIDMAG 360
Db 317 NFEALKTIVQNLREKIFALIEGTOTGSSSFHEHMSQEGSAITNSGPLISTYGSIDMAG 376
QY 361 GVELYTSKESSTFINMTRODSDNDAYLGYAAIILRNROSLVLAAPRYOHTGLVAMFR 420
Db 377 GVELYTSKESSTFINMTRODSDNDAYLGYAAIILRNROSLVLAAPRYOHTGLVAMFR 436
QY 421 QNTGMESNANVKGTOIGAYFGASLCSVDVDSNGSTDVLIGAPHYEQTRGQSVCP 480
Db 437 QNTGMESNANVKGTOIGAYFGASLCSVDVDSNGSTDVLIGAPHYEQTRGQSVCP 496
QY 481 PRGQARWQCDAYLYGEOQPMGRFGAALTVDVNGDKLTDVAIGAPGEDNRGAVYLF 540
Db 497 PRGQARWQCDAYLYGEOQPMGRFGAALTVDVNGDKLTDVAIGAPGEDNRGAVYLF 556
QY 541 HGTSGGISPSHQRISAGSLSPRLQYFGOSLJSGGDLTMDGLVDTLVGAQGHVLLRSQ 600
Db 557 HGTSGGISPSHQRISAGSLSPRLQYFGOSLJSGGDLTMDGLVDTLVGAQGHVLLRSQ 616
QY 601 PVLRYVAIMEFNREVARVFECDQVVKGEABVRVCLHVQSKTRDRLEGOIOSVVT 660
Db 617 PVLRYVAIMEFNREVARVFECDQVVKGEABVRVCLHVQSKTRDRLEGOIOSVVT 676
QY 661 YDLALSSGRHSAVFNENETNSSTRQTOVLGLTQTEITLKLQPNCTIEDPVSTIVRLNF 720
Db 677 YDLALSSGRHSAVFNENETNSSTRQTOVLGLTQTEITLKLQPNCTIEDPVSTIVRLNF 736
QY 721 SLVGTPLSAFAGNLRPVLAEDQRLFTALPFEKNGCNDNICODDLSITFSFMSLDCLVG 780
Db 737 SLVGTPLSAFAGNLRPVLAEDQRLFTALPFEKNGCNDNICODDLSITFSFMSLDCLVG 796
QY 781 GPREFNVTYVRNDESDSYRTQVTFEFPDLDSYRKVSTLQNGRSQSMWLACASASTEV 840
Db 797 GPREFNVTYVRNDESDSYRTQVTFEFPDLDSYRKVSTLQNGRSQSMWLACASASTEV 856
QY 841 SGALKSTSCSINHPIPPENSEVTFNITFDVDSKASLGNKLLKANTSENMPRTKTER 900
Db 857 SGALKSTSCSINHPIPPENSEVTFNITFDVDSKASLGNKLLKANTSENMPRTKTER 916
QY 901 QLELPVKYAVYVWVTSHTKYLNTFTASENTRVWQHGYOVSNLGORSPLISVLAVPY 960
Db 917 QLELPVKYAVYVWVTSHTKYLNTFTASENTRVWQHGYOVSNLGORSPLISVLAVPY 976
QY 961 RLMQTVIMDRPOVTFSENLSSTCHTERLPSSHDFLAELRKAPVNVCSIAVCRIGCIDIP 1020
Db 977 RLMQTVIMDRPOVTFSENLSSTCHTERLPSSHDFLAELRKAPVNVCSIAVCRIGCIDIP 1036
QY 1021 FFGIOEFNATLKNLSFDMYIKTSHNHLIVSTAELLFNDVSFTLLPGQAFVRSQTE 1080
Db 1037 FFGIOEFNATLKNLSFDMYIKTSHNHLIVSTAELLFNDVSFTLLPGQAFVRSQTE 1096
QY 1081 KVEPFEVNPPLIYVSSVGGLLLLITLALYKLGFFKQYKDMSEGGPGABEQ 1137
Db 1097 KVEPFEVNPPLIYVSSVGGLLLLITLALYKLGFFKQYKDMSEGGPGABEQ 1153

RESULT 7
US-08-943-363-3
Sequence 3, Application US/08943363
Patent No. 5837478
GENERAL INFORMATION:

```

APPLICANT: Gallatin, W. Michael
APPLICANT: Van der Vieren, Monica
TITLE OF INVENTION: No. 5837478el Human 2 Integrin Alpha Subunit
NUMBER OF SEQUENCES: 114
CORRESPONDENCE ADDRESS:
ADDRESS: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 233 South Wacker Drive, 6300 Sear Tower
CITY: Chicago
STATE: Illinois
COUNTRY: United States
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/943,363
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/173,497
FILING DATE: 23-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/286,889
FILING DATE: 5-AUG-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/362,652
FILING DATE: 21-DEC-1994
ATTORNEY/AGENT INFORMATION:
NAME: Williams Jr., Joseph A.
REGISTRATION NUMBER: 38,659
REFERENCE/DOCKET NUMBER: 27666/32684
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
TELEFAX: 312-474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1153 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-943-363-3
Query Match 99.3%; Score 5839; DB 2; Length 1153;
Best Local Similarity 98.9%; Pred. No. 0;
Matches 1124; Conservative 8; Mismatches 5; Indels 0; Gaps 0;
QY 1 FNDJENAMFQONANGFGOSVVOLOGSRVVGAPQEIIVANORGSLYOCDSYTGSCPT 60
DB 17 FNDJENAMFQONANGFGOSVVOLOGSRVVGAPQEIIVANORGSLYOCDSYTGSCPT 76
QY 61 RLQVPEAVNMSGLSLAATSPQOLACPTVHQCSENTYVKGICFLFGSNLRQOPQK 120
DB 77 RLQVPEAVNMSGLSLAATSPQOLACPTVHQCSENTYVKGICFLFGSNLRQOPQK 136
QY 121 FPBALRGCPQEDSDIAFLINGSGSIIIPHDRRMKELVSTIMEOLKSKTYLPSLMQJSEEF 180
DB 137 FPBALRGCPQEDSDIAFLINGSGSIIIPHDRRMKELVSTIMEOLKSKTYLPSLMQJSEEF 196
QY 181 RHIFTFEPQNNPNRSLKIPITQLGRTHTATGLRKVVELFNITNGAKNAFKLIFLL 240
DB 197 RHIFTFEPQNNPNRSLKIPITQLGRTHTATGLRKVVELFNITNGAKNAFKLIFLL 256
QY 241 TDEKFGDPLGYEDVLPDLREGVIRYVLGFGDAFRSEKSRQELNIVASKPRPDHYFOAN 300
DB 257 TDEKFGDPLGYEDVLPDLREGVIRYVLGFGDAFRSEKSRQELNIVASKPRPDHYFOAN 316
QY 301 NFPAKLVQQLAKKTAIGTQSGSSSPFHEHMSQGFSAALTSNGLPLSTVGSYDMAG 360
DB 317 NFPAKLVQQLAKKTAIGTQSGSSSPFHEHMSQGFSAALTSNGLPLSTVGSYDMAG 376

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QY 361 GVEFLYSKEKSTFIMNTRVDSMDNDAYLGYAAAILLRNRVOSLVGAPRYQHIGLVAMR 420
DB 377 GVEFLYSKEKSTFIMNTRVDSMDNDAYLGYAAAILLRNRVOSLVGAPRYQHIGLVAMR 436
QY 421 QNTGWESNANYKGTQIGAYFGASLCSVDVDSNGSTDLVLGAPHYEOTRGQVSVCE 480
DB 437 QNTGWESNANYKGTQIGAYFGASLCSVDVDSNGSTDLVLGAPHYEOTRGQVSVCE 496
QY 481 PRGORARWQCDVLYGEOQPMGRFGALTVLGDVNGDKLTDVALGAPDEBNRGAVLYF 540
DB 497 PRGORARWQCDVLYGEOQPMGRFGALTVLGDVNGDKLTDVALGAPDEBNRGAVLYF 556
QY 541 HSTSGSGISPSHSORIASKSLSPRLQYFGQSLSGGQDLMDDLVLTVGAQGHVLLRSQ 600
DB 557 HSTSGSGISPSHSORIASKSLSPRLQYFGQSLSGGQDLMDDLVLTVGAQGHVLLRSQ 616
QY 601 PVLRYKALMEFNPVAVRNVEFCNDQVYKKEAGEVRVCLHVQKSTRDLRREGQIOSVT 660
DB 617 PVLRYKALMEFNPVAVRNVEFCNDQVYKKEAGEVRVCLHVQKSTRDLRREGQIOSVT 676
QY 661 YDLALDSGRPHRAVENETKSTRROTQVLGLTORCENTKLOLPCIEDPVPVILRLNF 720
DB 677 YDLALDSGRPHRAVENETKSTRROTQVLGLTORCENTKLOLPCIEDPVPVILRLNF 736
QY 721 SLVGTPLSAFGNLRPLAEDAQRLFTALFPFEKNGCNDNICODDLSITFSFMSLDCLVYG 780
DB 737 SLVGTPLSAFGNLRPLAEDAQRLFTALFPFEKNGCNDNICODDLSITFSFMSLDCLVYG 796
QY 781 GREFNVTVYVNDGSDSYRTQVTFEPPLDLSYRKVSTLQNRQSRWRLACESASTEV 840
DB 797 GREFNVTVYVNDGSDSYRTQVTFEPPLDLSYRKVSTLQNRQSRWRLACESASTEV 856
QY 841 SGALSTGCSINHPTFPESEVTPNITPDVDSKALGNKLLKAVTSSNNMPTNKTEF 900
DB 857 SGALSTGCSINHPTFPESEVTPNITPDVDSKALGNKLLKAVTSSNNMPTNKTEF 916
QY 901 QLELPKYAVVWVYVSHGSTKYLNFTASENSTRVMOHQYQVSNLQGRSLPLSLVFLVYV 960
DB 917 QLELPKYAVVWVYVSHGSTKYLNFTASENSTRVMOHQYQVSNLQGRSLPLSLVFLVYV 976
QY 961 RLNQVIWDRPOVTSSENISSTCHTERLPSHSDPLAEIRKAPVNVCSIAVCQRIOCDIP 1020
DB 977 RLNQVIWDRPOVTSSENISSTCHTERLPSHSDPLAEIRKAPVNVCSIAVCQRIOCDIP 1036
QY 1021 FPGIOEFERNATLKGNLSFPMWYIKTSHNHLIYSTAEILFNDSVFLLPQOGAFVNSQTE 1080
DB 1037 FPGIOEFERNATLKGNLSFPMWYIKTSHNHLIYSTAEILFNDSVFLLPQOGAFVNSQTE 1096
QY 1081 KYEPFEPNPLPLIVGSSVSGLLLLALITLALYKLGFPKROYKDMMSBEGPPGAEPQ 1137
DB 1097 KYEPFEPNPLPLIVGSSVSGLLLLALITLALYKLGFPKROYKDMMSBEGPPGAEPQ 1153

```

```

RESULT 8
US-09-193-043-3
Sequence 3, Application US/09193043
Patent No. 6251395
GENERAL INFORMATION:
APPLICANT: Gallatin, Michael W.
APPLICANT: Van der Vieren, Monica
TITLE OF INVENTION: No. 6251395el Human 2
FILE REFERENCE: 27666/35004
CURRENT APPLICATION NUMBER: US/09/193,043
CURRENT FILING DATE: 1998-11-16
EARLIER FILING DATE: 1993-12-23
EARLIER FILING DATE: 1994-08-05
EARLIER FILING DATE: 1994-12-21
EARLIER FILING DATE: 1997-10-03

```


NUMBER OF SEQ ID NOS: 114
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3
LENGTH: 1153
TYPE: PR
ORGANISM: Homo sapiens
US-09-193-043-3

Query Match 99.3%; Score 5839; DB 4; Length 1153;
Best Local Similarity 98.9%; Pred. No. 0;
Matches 1124; Conservative 8; Mismatches 5; Indels 0; Gaps 0;

1 FNDTENAMTFOENARFGOSVVOLOGSRVVGAPOEIVANORGSLYOCDYSGCEPI 60
17 FNDTENAMTFOENARFGOSVVOLOGSRVVGAPOEIVANORGSLYOCDYSGCEPI 76
61 RLOVPEAVNMSLGLSLAATTSPPQLACGPTVHQTCSNTYVKGCLFGLGSLNRQOPK 120
77 RLOVPEAVNMSLGLSLAATTSPPQLACGPTVHQTCSNTYVKGCLFGLGSLNRQOPK 136
121 FPEALRGCPQEDSDIAFLIDGSGSIIIPHDRRMKELVSTIMEOLKSKTFLSMQYSEEF 180
137 FPEALRGCPQEDSDIAFLIDGSGSIIIPHDRRMKELVSTIMEOLKSKTFLSMQYSEEF 196
181 RIHFTKEFONNPNRSLIKPITQLGRTHTATGRLKRVRELFNITNGARKNAFKILL 240
197 RIHFTKEFONNPNRSLIKPITQLGRTHTATGRLKRVRELFNITNGARKNAFKILL 256
241 TDEKEDPLGYEDVPELDREGVIRYVGFDAFRSEKSRQELNNTVASKPRPDHVFQAN 300
257 TDEKEDPLGYEDVPELDREGVIRYVGFDAFRSEKSRQELNNTVASKPRPDHVFQAN 316
301 NFEALKTQVQOLREKIFAIEGTOTGSSSFEHMSOGFSAATSNGLSTVGSYDMAG 360
317 NFEALKTQVQOLREKIFAIEGTOTGSSSFEHMSOGFSAATSNGLSTVGSYDMAG 376
361 GVFPLYSKEKSTFINMTRVSDMNDAYLGYAAAIILNRRVQSLVYGAPRYQHIGLVAMFR 420
377 GVFPLYSKEKSTFINMTRVSDMNDAYLGYAAAIILNRRVQSLVYGAPRYQHIGLVAMFR 436
421 QNTGMESSNANVGTGICAFYGASLGVVDVDSGSDTLVIGAPHYEQRRGQVSVCP 480
437 QNTGMESSNANVGTGICAFYGASLGVVDVDSGSDTLVIGAPHYEQRRGQVSVCP 496
481 PRGQARMOQDAVLVYGEQGPWGRFGAALTVDGVNDKLTVDVAIGAPEGEDNRGAAYLF 540
497 PRGQARMOQDAVLVYGEQGPWGRFGAALTVDGVNDKLTVDVAIGAPEGEDNRGAAYLF 556
541 HGTSGSGISPSHSQRIAGSKLSPRLQYFGQSLSGGQDLTMDGLVDLTVGAQGHVLLRSQ 600
557 HGTSGSGISPSHSQRIAGSKLSPRLQYFGQSLSGGQDLTMDGLVDLTVGAQGHVLLRSQ 616
601 PVLARVKAIMEFNPREVARNPECDQVYKKEGAEVAVCHVQKSTPDLRBEQIQSVVT 660
617 PVLARVKAIMEFNPREVARNPECDQVYKKEGAEVAVCHVQKSTPDLRBEQIQSVVT 676
661 YDLALDSGRHSRAVFNETKSTRQTOVLQTCETTLKQLPNCIEDVSPVILRLNF 720
677 YDLALDSGRHSRAVFNETKSTRQTOVLQTCETTLKQLPNCIEDVSPVILRLNF 736
721 SLVGTPLSAFAGNLRVLAEDAQRLLFTALPPEKCKGNDNICODDLSTIFSFMISDCLVVG 780
737 SLVGTPLSAFAGNLRVLAEDAQRLLFTALPPEKCKGNDNICODDLSTIFSFMISDCLVVG 796
781 GREPEFNTVVRNDGDSYRTOVTFEPLSLYKRVSTLONORSQBRWLACSSASTEV 840
797 GREPEFNTVVRNDGDSYRTOVTFEPLSLYKRVSTLONORSQBRWLACSSASTEV 856
841 SGALKSTSCSINHPIPEENSEVTNITFDVDSKASLGNKLLKANTYSNNMRTNTEF 900
857 SGALKSTSCSINHPIPEENSEVTNITFDVDSKASLGNKLLKANTYSNNMRTNTEF 916
901 QLELPVKYAVVWVTVSHGVSSTKYLNTASENTSRVMQHOYVSNLQGRSLPISLVFLVPV 960

917 QLELPVKYAVVWVTVSHGVSSTKYLNTASENTSRVMQHOYVSNLQGRSLPISLVFLVPV 976
961 RLOQVIMDRPOVTFSENSTCHTERLPSSHDFLAELRKAPVNVGSAVACORICDIP 1020
977 RLOQVIMDRPOVTFSENSTCHTERLPSSHDFLAELRKAPVNVGSAVACORICDIP 1036
1021 FPGIOEFNATLKNLSFPMYIKTSHNHLIVSTAEILFNDSVFTLLPQGAFFVRSQTER 1080
1037 FPGIOEFNATLKNLSFPMYIKTSHNHLIVSTAEILFNDSVFTLLPQGAFFVRSQTER 1096
1081 KVEPEFNPPLIVGSSVGGILLALLITLALYKGFPRQYKXDMMSBEGPRAEPQ 1137
1097 KVEPEFNPPLIVGSSVGGILLALLITLALYKGFPRQYKXDMMSBEGPRAEPQ 1153

RESULT 9
US-09-688-307A-3
Sequence 3, Application US/09688307A

Patent No. 6432404
GENERAL INFORMATION:
APPLICANT: Gallatin, Michael W.
APPLICANT: Van der Vlieten, Monica
TITLE OF INVENTION: No. 6432404el Human Beta-2
FILE REFERENCE: 27866/36646
CURRENT FILING DATE: 2000-10-13
PRIOR APPLICATION NUMBER: 09/193,043
PRIOR FILING DATE: 1998-11-16
PRIOR APPLICATION NUMBER: 08/605,672
PRIOR FILING DATE: 1996-02-22
PRIOR APPLICATION NUMBER: 08/173,497
PRIOR FILING DATE: 1993-12-23
PRIOR APPLICATION NUMBER: 08/286,889
PRIOR FILING DATE: 1994-08-05
PRIOR APPLICATION NUMBER: 08/362,652
PRIOR FILING DATE: 1994-12-21
PRIOR APPLICATION NUMBER: 08/943,363
PRIOR FILING DATE: 1997-10-03
NUMBER OF SEQ ID NOS: 114
SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 3
LENGTH: 1153
TYPE: PR
ORGANISM: Homo sapiens
US-09-688-307A-3

Query Match 99.3%; Score 5839; DB 4; Length 1153;
Best Local Similarity 98.9%; Pred. No. 0;
Matches 1124; Conservative 8; Mismatches 5; Indels 0; Gaps 0;

1 FNDTENAMTFOENARFGOSVVOLOGSRVVGAPOEIVANORGSLYOCDYSGCEPI 60
17 FNDTENAMTFOENARFGOSVVOLOGSRVVGAPOEIVANORGSLYOCDYSGCEPI 76
61 RLOVPEAVNMSLGLSLAATTSPPQLACGPTVHQTCSNTYVKGCLFGLGSLNRQOPK 120
77 RLOVPEAVNMSLGLSLAATTSPPQLACGPTVHQTCSNTYVKGCLFGLGSLNRQOPK 136
121 FPEALRGCPQEDSDIAFLIDGSGSIIIPHDRRMKELVSTIMEOLKSKTFLSMQYSEEF 180
137 FPEALRGCPQEDSDIAFLIDGSGSIIIPHDRRMKELVSTIMEOLKSKTFLSMQYSEEF 196
181 RIHFTKEFONNPNRSLIKPITQLGRTHTATGRLKRVRELFNITNGARKNAFKILL 240
197 RIHFTKEFONNPNRSLIKPITQLGRTHTATGRLKRVRELFNITNGARKNAFKILL 256
241 TDEKEDPLGYEDVPELDREGVIRYVGFDAFRSEKSRQELNNTVASKPRPDHVFQAN 300
257 TDEKEDPLGYEDVPELDREGVIRYVGFDAFRSEKSRQELNNTVASKPRPDHVFQAN 316
301 NFEALKTQVQOLREKIFAIEGTOTGSSSFEHMSOGFSAATSNGLSTVGSYDMAG 360


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Db 317 NEPALKTIONOLREKIFALEGTOTGSSSFEHEMSOEGFSAITNSGPLLSTVGSYDMAG 376
Qy 361 GVEFLYTSKEKSTFIINMTRVDSMDNDAYLGAAAIIILNRVQSLVLAGAPRYOHIGLVAMFR 420
Db 377 GVEFLYTSKEKSTFIINMTRVDSMDNDAYLGAAAIIILNRVQSLVLAGAPRYOHIGLVAMFR 436
Qy 421 QNTGMESNANVKGTOIGAYFGASLCSVDVDSNGSTDVLIGAPHYYEOTRGQVSVCP 480
Db 437 QNTGMESNANVKGTOIGAYFGASLCSVDVDSNGSTDVLIGAPHYYEOTRGQVSVCP 496
Qy 481 PRGQARWQCDAYLVGEGQGPWGRFGAALTVDVNGDKLTVAIGAPEGEDNRGAAYLF 540
Db 497 PRGQARWQCDAYLVGEGQGPWGRFGAALTVDVNGDKLTVAIGAPEGEDNRGAAYLF 556
Qy 541 HGTSGSGISPSHSORLAGSKLSPRLQYFGQSLSGGODLTMDGLVDTLVGAQGHVLLRSQ 600
Db 557 HGTSGSGISPSHSORLAGSKLSPRLQYFGQSLSGGODLTMDGLVDTLVGAQGHVLLRSQ 616
Qy 601 PVLRVKAIMEFNPREVARNVEECNDQVYKGEKAGEVAVCLHVQKSTFRDLREGQIOSVVT 660
Db 617 PVLRVKAIMEFNPREVARNVEECNDQVYKGEKAGEVAVCLHVQKSTFRDLREGQIOSVVT 676
Qy 661 YDLALDSGRHSAVAVNETKSTRROQVULGIOTQCTELKLOPNCIEDVSVIYLRNF 720
Db 677 YDLALDSGRHSAVAVNETKSTRROQVULGIOTQCTELKLOPNCIEDVSVIYLRNF 736
Qy 721 SLVGTPLASAGNRPVLAEDAORLFTLPPFEKXCGNDNICODDLSTFSPMSLDCLVG 780
Db 737 SLVGTPLASAGNRPVLAEDAORLFTLPPFEKXCGNDNICODDLSTFSPMSLDCLVG 796
Qy 781 GPREFNVTAVRNDGEDSYRTQVTFEPDLISYRKVSTLQNSORSRMLACESASTEV 840
Db 797 GPREFNVTAVRNDGEDSYRTQVTFEPDLISYRKVSTLQNSORSRMLACESASTEV 856
Qy 841 SGALKSTSCSINNPIPEPNEVENTEDVDSKASLGNKLLKANVTSENMRTKTER 900
Db 857 SGALKSTSCSINNPIPEPNEVENTEDVDSKASLGNKLLKANVTSENMRTKTER 916
Qy 901 QLELPYKAVAVMYVTSIGVSTKYLNFTASENSTRVMOHQVQSNLGRSLPISLVLVPV 960
Db 917 QLELPYKAVAVMYVTSIGVSTKYLNFTASENSTRVMOHQVQSNLGRSLPISLVLVPV 976
Qy 961 RLNQVIWDRPOVTFSENLSTCHTERLPBSHDFLAELKAPVNSIAVQRIQCDIP 1020
Db 977 RLNQVIWDRPOVTFSENLSTCHTERLPBSHDFLAELKAPVNSIAVQRIQCDIP 1036
Qy 1021 FPGIOEBFNATLKGNLSFDWYIKTSHNHLIIVSTAELIENDSVFTLLPGQAFVRSQTER 1080
Db 1037 FPGIOEBFNATLKGNLSFDWYIKTSHNHLIIVSTAELIENDSVFTLLPGQAFVRSQTER 1096
Qy 1081 KVEPFEVNPPLPIVGSVGGILLLITAAVYKLGFFKRYQYKMMSEGGPPGAEPQ 1137
Db 1097 KVEPFEVNPPLPIVGSVGGILLLITAAVYKLGFFKRYQYKMMSEGGPPGAEPQ 1153

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RESULT 10

US-08-476-062A-43
Sequence 43, Application US/08476062A

Patent No. 5877275

GENERAL INFORMATION:
APPLICANT: Armat, M. Amin
TITLE OF INVENTION: CONTROLLING CELLULAR IMMUNE/INFLAMMATORY
NUMBER OF SEQUENCES: 53

CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 225 Franklin Street
CITY: Boston

STATE: MA
COUNTRY: US

ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette

```

; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/476,062A
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/216,081
; FILING DATE: 21-MAR-1994
; APPLICATION NUMBER: 07/537,830
; FILING DATE: 04-JAN-1991
; APPLICATION NUMBER: 07/539,842
; FILING DATE: 18-JUN-1990
; APPLICATION NUMBER: 07/212,573
; FILING DATE: 28-JUN-1988
; ATTORNEY/AGENT INFORMATION:
; NAME: Freeman, John W.
; REGISTRATION NUMBER: 29,066
; REFERENCE/DOCKET NUMBER: 00786/068003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/542-5070
; TELEFAX: 617/542-8906
;
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1152 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: Internal
;
US-08-476-062A-43

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Query Match 98.8%; Score 5808.5; DB 2; Length 1152;

Best Local Similarity 98.6%; Pred. No. 0; Mismatches 7; Indels 1; Gaps 1;

Matches 1121; Conservative 8;

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Qy 1 FNLDENAMTPOBNARFGQSVVOLQSGRVVVGAPQEIYAANQSGSLYOCDYSGSCBI 60
Db 17 FNLDENAMTPOBNARFGQSVVOLQSGRVVVGAPQEIYAANQSGSLYOCDYSGSCBI 76
Qy 61 RLQVPEAVNMSLGLSLAATTSBPQLLACGPTVHOTCSNTYKGLCFGLFSGNLROQPK 120
Db 77 RLQVPEAVNMSLGLSLAATTSBPQLLACGPTVHOTCSNTYKGLCFGLFSGNLROQPK 136
Qy 121 FPEALRGCPQEDSDIAFLIDSGSGIIPHDFRMKEVSTVMQKSKTLFSLMOYSEEP 180
Db 137 FPEALRGCPQEDSDIAFLIDSGSGIIPHDFRMKEVSTVMQKSKTLFSLMOYSEEP 196
Qy 181 RIHFTPEKQNNPNPRLIKPTQLLGRTHATGRLKRVRELFININGARKNAFKILFLL 240
Db 197 RIHFTPEKQNNPNPRLIKPTQLLGRTHATGRLKRVRELFININGARKNAFKILFLL 256
Qy 241 TDGEKFGDPLGYEDVLPDLREGVIRYVLGFGDAPRESEKSRQELNTVASKPRPDHVFQAN 300
Db 257 TDGEKFGDPLGYEDVLPDLREGVIRYVLGFGDAPRESEKSRQELNTVASKPRPDHVFQAN 316
Qy 301 NEPALKTIONOLREKIFALEGTOTGSSSFEHEMSOEGFSAITNSGPLLSTVGSYDMAG 360
Db 317 NEPALKTIONOLREKIFALEGTOTGSSSFEHEMSOEGFSAITNSGPLLSTVGSYDMAG 376
Qy 361 GVEFLYTSKEKSTFIINMTRVDSMDNDAYLGAAAIIILNRVQSLVLAGAPRYOHIGLVAMFR 420
Db 377 GVEFLYTSKEKSTFIINMTRVDSMDNDAYLGAAAIIILNRVQSLVLAGAPRYOHIGLVAMFR 436
Qy 421 QNTGMESNANVKGTOIGAYFGASLCSVDVDSNGSTDVLIGAPHYYEOTRGQVSVCP 480
Db 437 QNTGMESNANVKGTOIGAYFGASLCSVDVDSNGSTDVLIGAPHYYEOTRGQVSVCP 496
Qy 481 PRGQARWQCDAYLVGEGQGPWGRFGAALTVDVNGDKLTVAIGAPEGEDNRGAAYLF 540
Db 497 PRGQARWQCDAYLVGEGQGPWGRFGAALTVDVNGDKLTVAIGAPEGEDNRGAAYLF 556
Qy 541 HGTSGSGISPSHSORLAGSKLSPRLQYFGQSLSGGODLTMDGLVDTLVGAQGHVLLRSQ 600

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|||||
Db 556 HGTSGSGISPSHSQRIAGSLSPRLQYFGOSLSGQDGLTMDGLVDTLVAQGHVLLRSQ 615
601 PVLRYKAIMFENPREVARVAFECNDQVVKKEAGEVAVCLHVOKSTRDLREGQIOSVVT 660
616 PVLRYKAIMFENPREVARVAFECNDQVVKKEAGEVAVCLHVOKSTRDLREGQIOSVVT 675
Qy 661 YDLALDSGRPHSAVAFNETKSTRQTOVLGLTOTCETLKLQUPNCIEDPVPPIVRLNF 720
676 YDLALDSGRPHSAVAFNETKSTRQTOVLGLTOTCETLKLQUPNCIEDPVPPIVRLNF 735
Db 721 SLVGTPLSAAGNLRPVLAEDAQRLLFTLFPFEKKGCDNLCODDLSTFSPMSLDCLVYG 780
736 SLVGTPLSAAGNLRPVLAEDAQRLLFTLFPFEKKGCDNLCODDLSTFSPMSLDCLVYG 795
Qy 781 GPREFNVTYVVRNDGEDSYRTQVTFPPDLISYRKVSTLONORSQRMRLACESASTEV 840
796 GPREFNVTYVVRNDGEDSYRTQVTFPPDLISYRKVSTLONORSQRMRLACESASTEV 855
Db 841 SGALKSTCSINHPFEPENSEVTENITFDVDSKASLGKLLKXAVTSENNMPTNKTEF 900
856 SGALKSTCSINHPFEPENSEVTENITFDVDSKASLGKLLKXAVTSENNMPTNKTEF 915
Qy 901 QLELPVYKAYVYVVTSHGVSTKYNLFTASENTSRWMOHQVSNLQGRSLPISLVLPVY 960
916 QLELPVYKAYVYVVTSHGVSTKYNLFTASENTSRWMOHQVSNLQGRSPISLVLPVY 975
Db 961 RLMOQVIMDRPOVTFSENLSSTCHTERLPSHSDFLAEKAPVNSIIVCORIQDIP 1020
976 RLMOQVIMDRPOVTFSENLSSTCHTERLPSHSDFLAEKAPVNSIIVCORIQDIP 1035
Qy 1021 FFGIOEBFNATLKGNSLFDWYIKTSHNLLIVSTAEILFNDVFTLLPGOGAFVRSQET 1080
1036 FFGIOEBFNATLKGNSLFDWYIKTSHNLLIVSTAEILFNDVFTLLPGOGAFVRSQET 1095
Db 1081 KVEPFEVNPFLPIVSGSVGGLLILALITLALYKLGFFKQYKDMSEGGPPGAEPQ 1137
1096 KVEPFEVNPFLPIVSGSVGGLLILALITLALYKLGFFKQYKDMSEGGPPGAEPQ 1152

```

RESULT 11

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PCT-US96-01314-43
; Sequence 43, Application PC/TUS9601314
; GENERAL INFORMATION:
; APPLICANT: M. Amin Arnaout
; TITLE OF INVENTION: METHODS FOR IDENTIFYING INTEGRIN
; TITLE OF INVENTION: ANTAGONISTS
; NUMBER OF SEQUENCES: 78
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM PS/2 Model 502 or 555X
; OPERATING SYSTEM: MS-DOS (version 5.0)
; SOFTWARE: WordPerfect (version 5.1)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/01314
; FILING DATE: 30-JAN-96
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/380,167
; FILING DATE: 30-JAN-95
; ATTORNEY/AGENT INFORMATION:
; NAME: John W. Freeman
; REGISTRATION NUMBER: 29,066
; REFERENCE/DOCKET NUMBER: 00786/267001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 542-5070
; TELEFAX: (617) 542-8906

```

```

; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1152
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
PCT-US96-01314-43
Query Match 98.8%; Score 5808.5; DB 5; Length 1152;
Best Local Similarity 98.6%; Pred. No. 0;
Matches 1121; Conservative 8; Mismatches 7; Indels 1; Gaps 1;
Qy 1 FNLDENAMTPOENARFGQSVYVQSGSRVYVGAPOEIVAAHQSGLYQCDYSTGSCBPI 60
Db 17 FNLDENAMTPOENARFGQSVYVQSGSRVYVGAPOEIVAAHQSGLYQCDYSTGSCBPI 76
Qy 61 RLQVPYEAVMMSLGLSLAATTSPPQLLAGPVTYHQCSENTYVKGICFLFGSNLRQOPK 120
Db 77 RLQVPYEAVMMSLGLSLAATTSPPQLLAGPVTYHQCSENTYVKGICFLFGSNLRQOPK 136
Qy 121 FPEALGCPQEBSDIAFLIDSGSIIPHDFRMKELVSTIMEQLKSKTLPFSIMOYSEEF 180
Db 137 FPEALGCPQEBSDIAFLIDSGSIIPHDFRMKELVSTIMEQLKSKTLPFSIMOYSEEF 196
Qy 181 RHFTEKEFQNNPNRSLIKPITOLLGRTHJATGLRKVRELFNITNGARKNAFKILFLL 240
Db 197 RHFTEKEFQNNPNRSLIKPITOLLGRTHJATGLRKVRELFNITNGARKNAFKILVVI 256
Qy 241 TDEKEKDLGJEDVYPELDRGCVIRYVGFQDAFPESEKROELNVAKPRPDHVFQAN 300
Db 257 TDEKEKDLGJEDVYPELDRGCVIRYVGFQDAFPESEKROELNVAKPRPDHVFQAN 316
Qy 301 NFPAALTYONOLREKIFALEGTQTGSSSFHEHMSQBSAATNSGPLSTVGSYDMAG 360
Db 317 NFPAALTYONOLREKIFALEGTQTGSSSFHEHMSQBSAATNSGPLSTVGSYDMAG 376
Qy 377 GVFLYTSKESKSTFINMTRVDSDMNDAYLGYAAAILRNVSQSLVYGAPRYOHIGLVAMR 436
Db 421 QNTGMSNANVKGTOIGAFQASLCSVDVDSNGSTDLIGAPHYEEOTRGQVSVCL 480
Qy 437 QNTGMSNANVKGTOIGAFQASLCSVDVDSNGSTDLIGAPHYEEOTRGQVSVCL 496
Db 481 PRGORARWOCDAVLYGEOQCPWGRFGAALTVDVNGDKLTVAIGAPEEDNRGAVYLF 540
Qy 497 PRGORARWOCDAVLYGEOQCPWGRFGAALTVDVNGDKLTVAIGAPEEDNRGAVYLF 555
Db 541 HGTSGSGISPSHSQRIAGSLSPRLQYFGOSLSGQDGLTMDGLVDTLVAQGHVLLRSQ 600
Qy 556 HGTSGSGISPSHSQRIAGSLSPRLQYFGOSLSGQDGLTMDGLVDTLVAQGHVLLRSQ 615
Db 601 PVLRYKAIMFENPREVARVAFECNDQVVKKEAGEVAVCLHVOKSTRDLREGQIOSVVT 660
Qy 616 PVLRYKAIMFENPREVARVAFECNDQVVKKEAGEVAVCLHVOKSTRDLREGQIOSVVT 675
Db 661 YDLALDSGRPHSAVAFNETKSTRQTOVLGLTOTCETLKLQUPNCIEDPVPPIVRLNF 720
Qy 676 YDLALDSGRPHSAVAFNETKSTRQTOVLGLTOTCETLKLQUPNCIEDPVPPIVRLNF 735
Db 721 SLVGTPLSAAGNLRPVLAEDAQRLLFTLFPFEKKGCDNLCODDLSTFSPMSLDCLVYG 780
Qy 736 SLVGTPLSAAGNLRPVLAEDAQRLLFTLFPFEKKGCDNLCODDLSTFSPMSLDCLVYG 795
Db 781 GPREFNVTYVVRNDGEDSYRTQVTFPPDLISYRKVSTLONORSQRMRLACESASTEV 840
Qy 796 GPREFNVTYVVRNDGEDSYRTQVTFPPDLISYRKVSTLONORSQRMRLACESASTEV 855
Db 841 SGALKSTCSINHPFEPENSEVTENITFDVDSKASLGKLLKXAVTSENNMPTNKTEF 900
Qy 856 SGALKSTCSINHPFEPENSEVTENITFDVDSKASLGKLLKXAVTSENNMPTNKTEF 915

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QY 901 QLELPKAVYVWVTSHTKYLNTFASENTSRVMOHQOVNSLGRSLPISLVLPV 960
 DB 916 QLELPKAVYVWVTSHTKYLNTFASENTSRVMOHQOVNSLGRSPISLVLPV 975
 QY 961 RLNQYIMDRPQVTFSENLSSTCHTKERLPSHSDFLAEKAPVNCIAVCORICDIP 1020
 DB 976 RLNQYIMDRPQVTFSENLSSTCHTKERLPSHSDFLAEKAPVNCIAVCORICDIP 1035
 QY 1021 FFGIOEFNATLKGNLSFDMYIKTSHNHLIVSTAEILFNDVFTLLPGGAFVRSOTET 1080
 DB 1036 FFGIOEFNATLKGNLSFDMYIKTSHNHLIVSTAEILFNDVFTLLPGGAFVRSOTET 1095
 QY 1081 KVEPFEVNPDLPIVSSVGGLLLLALITLALYKLGFFKQYKDMSEGGPPGAEPQ 1137
 DB 1096 KVEPFEVNPDLPIVSSVGGLLLLALITLALYKLGFFKQYKDMSEGGPPGAEPQ 1152
 RESULT 12
 5424399-2
 Patent No. 5424399
 APPLICANT: ARNAOUT, M. AMIN
 TITLE OF INVENTION: HUMAN CR3a/b HETERODIMERS
 NUMBER OF SEQUENCES: 12
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/78,871
 FILING DATE: 16-JUN-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 539,842
 FILING DATE: 18-JUN-1990
 APPLICATION NUMBER: 212,573
 FILING DATE: 28-JUN-1988
 SEQ ID NO:2:
 LENGTH: 1152
 5424399-2

Query Match 98.8%; Score 5808.5; DB 6; Length 1152;
 Best Local Similarity 98.6%; Pred. No. 0;
 Matches 1121; Conservative 8; Mismatches 7; Indels 1; Gaps 1;
 QY 1 FNDITENAMTFOENARFGSGSVVLOGSRVYVGAPOEIVANONGSGIYOCDSYSGSEPI 60
 DB 17 FNDITENAMTFOENARFGSGSVVLOGSRVYVGAPOEIVANONGSGIYOCDSYSGSEPI 76
 QY 61 RLQVPVAVVMSLGLSLAATTSPPQLACGPTVYHQTCEMYYVKGFLFGSNLRQOPK 120
 DB 77 RLQVPVAVVMSLGLSLAATTSPPQLACGPTVYHQTCEMYYVKGFLFGSNLRQOPK 136
 QY 121 FPEALRGCPEDSDIAFLIDSGSIIIPHDFRMKELVSTIMEOLKSKTLPSLMQYSEEF 180
 DB 137 FPEALRGCPEDSDIAFLIDSGSIIIPHDFRMKELVSTIMEOLKSKTLPSLMQYSEEF 196
 QY 181 RIHFTPEPNNPBRSLIPIITOLLGRTHATGLRKVVRBELFNITGARKNAKILFLL 240
 DB 197 RIHFTPEPNNPBRSLIPIITOLLGRTHATGLRKVVRBELFNITGARKNAKILFLL 256
 QY 241 TDGEKFGDPLGYEDVIELDRREGVIRYVLFGDAFRSEKSRQELNTYASKPRDHFQAN 300
 DB 257 TDGEKFGDPLGYEDVIELDRREGVIRYVLFGDAFRSEKSRQELNTYASKPRDHFQAN 316
 QY 301 NFEALKTIVONQREKIFALIEGTOTGSSSSPEHEMNSQEGFSAITSNGPLLSTVGSYDMAG 360
 DB 317 NFEALKTIVONQREKIFALIEGTOTGSSSSPEHEMNSQEGFSAITSNGPLLSTVGSYDMAG 376
 QY 361 GVFLYTSKEKSTFINMRVSDMNDAYLGYAAAILIANNRQVSLVGAAPRQIHGLVMFR 420
 DB 377 GVFLYTSKEKSTFINMRVSDMNDAYLGYAAAILIANNRQVSLVGAAPRQIHGLVMFR 436
 QY 421 QNTGMSNNANVKGTQIGAYFGASLGVVDVDSNSTDLVLIGAPHYEQRGGQVSCPL 480
 DB 437 QNTGMSNNANVKGTQIGAYFGASLGVVDVDSNSTDLVLIGAPHYEQRGGQVSCPL 496
 QY 481 PRGQRAWQCDVAVLYGEOGQPMGRFGAALTVLGDVNGDKLTDVAIGAPGEEDNRGAAYLF 540

DB 497 PRG-RARWQCDVAVLYGEOGQPMGRFGAALTVLGDVNGDKLTDVAIGAPGEEDNRGAAYLF 555
 QY 541 HGTSGSGISPSHSORJAGSKLSPRLQYFGOSLSGGODLTMDGLVDTLVGAQGHVLLRSG 600
 DB 556 HGTSGSGISPSHSORJAGSKLSPRLQYFGOSLSGGODLTMDGLVDTLVGAQGHVLLRSG 615
 QY 601 PVLKVAIMEFNBREVARVFECDNDQVVKGEAGEVYVCLHVKSTRDLRREGQISVYT 660
 DB 616 PVLKVAIMEFNBREVARVFECDNDQVVKGEAGEVYVCLHVKSTRDLRREGQISVYT 675
 QY 661 YDLALDSGRPHSRVAVNEKNSRRROTQVGLTQTEETKLQLPNCIEBPVSVIYRLNF 720
 DB 676 YDLALDSGRPHSRVAVNEKNSRRROTQVGLTQTEETKLQLPNCIEBPVSVIYRLNF 735
 QY 721 SLVGTPLSAFGNLRPLAEDAORLFTALPPEKNCNDNICODDLSITSPMSLDCLVVG 780
 DB 736 SLVGTPLSAFGNLRPLAEDAORLFTALPPEKNCNDNICODDLSITSPMSLDCLVVG 795
 QY 781 GPREFNVTYVRNDESDSYRTQVTFPPPLDLSYRKVSTLQONORSWRLACESASTEV 840
 DB 796 GPREFNVTYVRNDESDSYRTQVTFPPPLDLSYRKVSTLQONORSWRLACESASTEV 855
 QY 841 SGALKSTSGSINHPIPEPSEVTFNTTTPYDASKASLGKULLKANTSENNPRTKTEP 900
 DB 856 SGALKSTSGSINHPIPEPSEVTFNTTTPYDASKASLGKULLKANTSENNPRTKTEP 915
 QY 901 QLELPKAVYVWVTSHTKYLNTFASENTSRVMOHQOVNSLGRSLPISLVLPV 960
 DB 916 QLELPKAVYVWVTSHTKYLNTFASENTSRVMOHQOVNSLGRSPISLVLPV 975
 QY 961 RLNQYIMDRPQVTFSENLSSTCHTKERLPSHSDFLAEKAPVNCIAVCORICDIP 1020
 DB 976 RLNQYIMDRPQVTFSENLSSTCHTKERLPSHSDFLAEKAPVNCIAVCORICDIP 1035
 QY 1021 FFGIOEFNATLKGNLSFDMYIKTSHNHLIVSTAEILFNDVFTLLPGGAFVRSOTET 1080
 DB 1036 FFGIOEFNATLKGNLSFDMYIKTSHNHLIVSTAEILFNDVFTLLPGGAFVRSOTET 1095
 QY 1081 KVEPFEVNPDLPIVSSVGGLLLLALITLALYKLGFFKQYKDMSEGGPPGAEPQ 1137
 DB 1096 KVEPFEVNPDLPIVSSVGGLLLLALITLALYKLGFFKQYKDMSEGGPPGAEPQ 1152
 RESULT 13
 US-08-476-062A-44
 Sequence 44, Application US/08476062A
 Patent No. 5877275
 GENERAL INFORMATION:
 APPLICANT: Arnaout, M. Amin
 TITLE OF INVENTION: CONTROLLING CELLULAR IMMUNE/INFLAMMATORY
 TITLE OF INVENTION: RESPONSES WITH BETA2 INTEGRINS
 NUMBER OF SEQUENCES: 53
 CORRESPONDENCE ADDRESS:
 ADDRESSER: Fish & Richardson P.C.
 STREET: 225 Franklin Street
 CITY: Boston
 STATE: MA
 COUNTRY: US
 ZIP: 02110-2804
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: Windows95
 SOFTWARE: PasteSeq for Windows Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/476,062A
 FILING DATE: 07-JUN-1995
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/216,081
 FILING DATE: 21-MAR-1994
 APPLICATION NUMBER: 07/657,830
 FILING DATE: 04-JAN-1991
 APPLICATION NUMBER: 07/539,842

FILING DATE: 18-JUN-1990
 APPLICATION NUMBER: 07/212,573
 FILING DATE: 28-JUN-1998
 ATTORNEY/AGENT INFORMATION:
 NAME: Freeman, John W.
 REGISTRATION NUMBER: 29,066
 REFERENCE/DOCKET NUMBER: 00786/068003
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 617/542-5070
 TELEFAX: 617/542-8906
 TELEEX: 200154
 INFORMATION FOR SEQ ID NO: 44:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1163 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-476-062A-44

very Match 58.6%; Score 3446; DB 2; Length 1163;
 est Local Similarity 60.5%; Pred. No. 4,3e-278;
 Matches 683; Conservative 143; Mismatches 297; Indels 6; Gaps 4;

QY 1 PNLDTENAMTFOENARFGSGSVVOLGSRVYVGAPOEIVAAANORGLSYCCDYSTGSCPEI 60
 DB 20 FNLDTBELTAFRVDSAGFGDSVVOYANSWVVGAPQKITANQGTGLYCCGYSTGACEPI 79
 QY 61 RLOVPEAVNMSGLSLAATSPQQLACGPTVYQTCSEMTYVYGLGFLGSLNRQOPK 120
 DB 80 GLOVPEAVNMSGLSLAATSPQQLACGPTVYHBCGRMYTLGLTFLGLPT--QLTOR 137
 QY 121 PPEALRGCPQEDSDIAFLIDGSGSIIPHDFRMKELVSTIMEQLKSKTFLSMQYSEEF 180
 DB 138 LPVSRQCPQEQEDIVFLIDGSGSISRNFATWNPFAVAVISQFORSTQSLMQFNKF 197
 QY 181 RIHTPEFQNNPRLIPIITOLLERTHTATGLRKYVRELENTNGARKNAFKIIFL 240
 DB 198 QTHTEFEFRRTSNPLSLASVHQLGFTYATAIQNVVHRLFHASYGARDATKILIVI 257
 QY 241 TDGKFGDPYGEVIEIPELREGVIRYVLGFGDAFRSEKROELNUTASPPRHVQAN 300
 DB 258 TDGKFGDSLDYKDVIMADAGIIRAIYGLAFQNRNSKELNDASKPSOEHITKVE 317
 QY 301 NFPAKTVQNLREKIFAIETOTGSSSFEHENSQGFSAITSNGPLSTVGSYDMAG 360
 DB 318 DFDALKQIQNLKFKIPIAIGETITSSSELEMAQGFSAVFPDGPVLGAVGSPFWSC 377
 QY 361 GVLPTYSKEKSTFINMTRVSDMNDAYLGYAAIILNRRVQSLVGLAPRYQHTGLVMFR 420
 DB 378 GAFLYPPNMSPTFINMSQENVDMRDSYLGYSTELAKGVQSLVGLAPRYQHTGKAVIFT 437
 QY 421 QNTGMSNNANVKQTOIGAYFGASLGSVDVDSNGSTLVYIGAPHYEQTRGGQVSVCP 480
 DB 438 QVSRQRMKAEVGTQIGSYFGASLGSVDVDTDSITLVIGAPHYEQTRGGQVSVCP 497
 QY 481 PRGQARAWQDAVLGYEGQGPWGRFGAALTYLGDVNGDKLTDVAIGAPEGEDNRKAVYLF 540
 DB 498 PRGWR-RWMCDAVLGYEGQHPWGRFGAALTYLGDVNGDKLTDVIGAPEGEDNRKAVYLF 556
 QY 541 HGTSGSISISHSHGRINGSLSPLOQYFGGSLSGGQDLTMDGLVDLTVGAGQAVLLRSQ 600
 DB 557 HGVALPESISSHSQRLAGSLSRLQYFGQALSGGQDLTDGLVDLAVGARGQVLLLTR 616
 QY 601 PVLRYKAIMFENPREVARNFECDQVVKKEAGEVVRCLHVQSTDRLREGQIOSVVT 660
 DB 617 PVLWGVSMQPIPAEIRSRAPFECREQVASECTLVQSNICLYIDKRSKNLIGSRDLQSVT 676
 QY 661 YDLALDSGRHSAVFNENKSTRQTOVLGTQTCETLKLQFNCTEDVSPVILRLNF 720
 DB 677 LDALADGRISPRATFETKRSLSRVRLGLKAGCENFLLLPSCVEDSVPTTLRLNF 736
 QY 721 SLVCTPLSAGNLRPVLAEDQRLFTALFPPEKKGNDNICODDLSTFSFMSIDCLVVG 780

DB 737 TLVQKPLAFRNLRLPMLAALQRYFTASLPFEKNGCAGDHCODNLGISPSFGLKSLVVG 796
 QY 781 GREPFVTVVRNDGSDSYRTOVTFEFPPLDISYRKVSTLONORSQSRWLACASSTEV 840
 DB 797 SNLELAENVWMDGEDSTGTTTFESHPLAGLSRYRYABEQKQQLSLHITCDASAVG-- 854
 QY 841 SGALKSTSGSINHPENSEVTFNITPDVDSKASLGNKLLKANTYSENNMRTKTER 900
 DB 855 SQGTWSTSCINHLIRGGAQITFLATPDVSPKAVLGDRLTLAANSSENNTRTSKTTF 914
 QY 901 QLELPVKYAVYMYVYSHGYSTKTLNFTAG-ENTSRMWOQOYVSNIGQSLPLSLVFLVP 959
 DB 915 QLELPVKYAVYVYSSHEQFTKYLNFSESEKSHVAMHRYQVNNIGORDLPVYSINFVP 974
 QY 960 VRLNQTVMIDRPQVTSSENLSTCHKERLPSSHDFLAELRKAPVYVNCISIAVQRIQCDI 1019
 DB 975 VELNQEAVMWDVESHDPNSLRCSEKAPPSADPLAIQKNPVLDCSLAGLRRCDV 1034
 QY 1020 PPEGIOEFPNATLKNLSFDWYIKTSHNHLIVSTAELIFENDSVFTLLPQGAFFVSQTE 1079
 DB 1035 PPSVQBELDFTLKNLSFGWVRQILQKKVSVVAEITFDTSVSQLPGQEAFFMAQT 1094
 QY 1080 TKYEPREVPNPLIYGVSSVGLLALLITALYKLGPFKQYKDMSE 1128
 DB 1095 TVLEKTKVHNPTPLIVGSSIGLLLALITAVLYKVGFFKQYKEMME 1143

RESULT 14
 PCT-US96-01314-44
 Sequence 44, Application PC/TUS9601314
 GENERAL INFORMATION:
 APPLICANT: M. Amin Arsaout
 TITLE OF INVENTION: METHODS FOR IDENTIFYING INTEGRIN
 TITLE OF INVENTION: ANTAGONISTS
 NUMBER OF SEQUENCES: 78
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Fish & Richardson P.C.
 STREET: 225 Franklin Street
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: U.S.A.
 ZIP: 02110-2804
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.5" Diskette, 1.44 MB
 COMPUTER: IBM PS/2 Model 502 or 558X
 OPERATING SYSTEM: MS-DOS (Version 5.0)
 SOFTWARE: Wordperfect (Version 5.1)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US96/01314
 FILING DATE: 30-JAN-96
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/380,167
 FILING DATE: 30-JAN-95
 ATTORNEY/AGENT INFORMATION:
 NAME: John W. Freeman
 REGISTRATION NUMBER: 29,066
 REFERENCE/DOCKET NUMBER: 00786/267001
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 542-5070
 TELEFAX: (617) 542-8906
 TELEEX: 200154
 INFORMATION FOR SEQ ID NO: 44:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1163
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: linear
 PCT-US96-01314-44

Query Match 58.6%; Score 3446; DB 5; Length 1163;
 Best Local Similarity 60.5%; Pred. No. 4,3e-278;
 Matches 683; Conservative 143; Mismatches 297; Indels 6; Gaps 4;

Qy	1	FNLTEANMFOEABRFGQSVVQLOGSRVYVGAPOEIVAAOROSIVQOVSSTSCPI	60
Db	20	FNLDTBELTAFKRVDSAGFQSVQYANVYVGAPOKIIAANOTGGLTOCGYSTACBPI	79
Qy	61	RLQVPEAVVNNISLGLSLAATTSPPOLLACPTVHQTCSENTYVKGLCEPLFGSLNRQOQK	120
Db	80	GLQVPEAVVNNISLGLSLASTTSPQLLACGPTVHHCGSNWLTGLCFLGPT--QLQNR	137
Qy	121	PEPALRGCPQEDSDIALVINGSGSIIPHDFRRKELVSTIMEOLKKSCTLPSLMQSEEF	180
Db	138	LPVROECPROBODIVELIDGSGSISRNPMATMMNVRVAVISOQFOPSTOFSLMOFSNKF	197
Qy	181	RHFTPEKPONNPPRSLIPITQOLLGRTHATGLAKVYRELFNITNGARKNAFIFLFL	240
Db	198	QTHTEEFERFRTSNPULSLASVHOLQOFTTATATQVNHVRLPHASYGARRRATKILVLI	257
Qy	241	TDEGKFGDPLGEBVIBELDREGIRVILGFGDAPFSEKSRQELNTVASKPRDHFQAN	300
Db	258	TDGKKEDBSLDYKQVIFMAADAGIRAIQVGLAFONRMSWEINDASKPSQEHIFVE	317
Db	301	NPEALKTVQNLREKIVALEGTOTGSSSSFHEHMSQEGFSAAITSNGLPLSTVSGYDMAG	360
Db	318	DFDALKIQNLKKEKIPAIETGETTSSSSPELEMAQEGSAVFTEPGPVLGAVGFSFTWSG	377
Qy	361	GVELITYSKEKSTFINMTRVDSOMNDALGTAALILRNQVSVILGAPRYOHTGLVANFR	420
Db	378	GAFIYPPMSPFTFMSQEVNDRMDSLYGSTEALMKQSVILGAPPYQHTGVAVIFT	437
Qy	421	ONTGWESNNAVKTQIGAFGASLQVDVDSNGSTDVLIGAPHYEEOTRGQVSVPL	480
Db	438	QVSNQMRKAEVITQIGSTFGASLQSVDDTGSTDLVLIGAPHYEDTRGQVSVCP	497
Qy	481	PRGORARQCDVLYGEOQOPWGRFGAALTVLGDVNGDKLTDVAIGAPGEDNRRGAVYLF	540
Db	498	PRGMR-RWMCDAVLYGEOGHPWGRFGAALTVLGDVNGDKLTDVIGAPGEENRGAVYLF	556
Qy	541	HGTSGSGISPEHSQRINGSLSPLOYFGQSLGGODLTMDGLVDLTVAQCHVILLRSQ	600
Db	557	HGVLGSPISPEHSQRINGSLSSRLQYFGQALSGGODLTQDGLVDLAVGARQVILLRTR	616
Qy	601	PVLKRAIMEBPPEAVRANVECDQOVKKKEAGEVRVCLHVOKSTRDLREGIOISVYT	660
Db	617	PVLWGVSMQIIPAEIRSAPECEQVVSQTLVQSNICLIYDKSKNULSGRDLQSVT	676
Qy	661	YDLALDSGRPHSRAVFNETKNSSTRQTOVLGTOTCEITKLQPNICIEDPVSPILRLNF	720
Db	677	LDLALDPERLSPRATFOETKNRSLSRRVVLGLKXHCENFILLPSCVEDSVPIITLRNF	736
Db	721	SLVGTPLSAPGNLPRVLAEDQRLFTLAPPEKXCNNDNICODSLTFSFMSLDCLYVG	780
Db	737	TLVGPFLPILAFNLRLPMLAALQRYFTSLPFEKXCGADHICODNLGISFSPFLKSLLYG	796
Qy	781	GPRENVTVYTRNNGEBSYRQVTFPPDLDSRXYSTLQNRSQSRWLAACESASSTEV	840
Db	797	SNLEINAEVVMWNGEDSYGTTTTFSGPAGLSTRVYABEGQQLSLHLTCDSPAG--	854
Qy	841	SGALKSTSCSINHPIPENSEVTFNITFVDVASIASGNKLLKANTYSENNAIPRNKTEF	900
Db	855	SGQWMTSCTRINHILPFGAGQITFLAFVDSPKAVLGDRLLLTANVSSENNTPRKISKTFE	914
Qy	901	QLELPVKYAVYVTVTSHGVSTKYINFTAS--ENTSRVMOHOYOVSNIQORSPLISVLVP	959
Db	915	QLELPVKYAVYVTVVSHBOQFTKYLNFESESEKESHAMHRYQVNNLQGOCDLPSVINFWP	974
Qy	960	VLNLTQVWDRPOVTFPSBNLSTCHTKERLPHSHDPLAELARKAPVNGSIANCQILQDDI	1019
Db	975	VELNDEAAMWDEVSHPNPRLSCSSSEKIAPPASDFLHIOKNPVLDCSIAQCLPRCDV	1034
Qy	1020	PFPGIOEEFNATLKGNIISFDVYITSHNHMLIYSTAEILLFNDSVFTLLEGGQAFVRSQTE	1079
Db	1035	PSFSVQEBDLDTLKGNIISFGVNRQIIOKKXYSVSVSAEITITDISVYSQDLGQGAHFRAQTT	1094
Qy	1080	TKVBEFVYVNPPLVVGSSVGGILLALLITRALYKLGFFKQYKDMNSE	1128

[illegible]

Db 318 DFDALDIONQLEKIFAIGTETITSSSFELEMAOEGFSAVFTPDGPVIGAVGSFTWSG 377
Qy 361 GVEFLYTSKEKSTFINMTRVDSMDNDAYIAAAILLNRVQSLVIGAPRYOHIGLVAMFR 420
Db 378 GAFLLYPNMSPTFINNGEVDNRDSTLIGSTELAMKVQSLVIGAPRYOHIGKAVIFI 437
Qy 421 QNTGMWESNANVKOTQIGAYFGASLCSVDVDSNGSTDVLIGAPHYEQTRGGQVSVCP 480
Db 438 QVSRQWRMKAEVIGTQIGSYFGASLCSVDVDTGSTDVLIGAPHYEQTRGGQVSVCP 497
Qy 481 PRGQARWOCDAVLXGQGPWGRFGAALTVDVNGDKLTDVAIGAPGEEDNRGAAYLF 540
Db 498 PRGMR-RMWCDVAVLXGQGPWGRFGAALTVDVNGDKLTDVAIGAPGEEDNRGAAYLF 556
Qy 541 HGTSGSGISPSHSORLAGSLSPLOYFGQSLSGGQDLTMDGLVDLTVAGQGHVLLRSQ 600
Db 557 HGVLGBSISPSHSORLAGSLSPLOYFGQSLSGGQDLTMDGLVDLTVAGQGHVLLRSQ 616
Qy 601 PVLRYKAIMENPREVANVEECNDQVYKGEAGEVRCILHVOKSTRDLREGQIQSVT 660
Db 617 PVLWVGVMQFIPAEIPRSAFECEQVSEQTLVQSNICLYIDKRSKLLGSRDLQSSVT 676
Qy 661 YDLALDSGRPHSRVAVNETKSTRROTVGLTOTCTLKLQLPNCTEDPVSPVLRINF 720
Db 677 LDIALAPGRISPRAIFQETKRSLSRVYVGLKXHCENFNILLPSCEVDSVIPILRLNF 736
Qy 721 SLVGTPLSAFGNLRPVLAEDAOQLFTALPFEKNCGNNDICODDLSTFSFMSJDCLVG 780
Db 737 TLVGKPLAIFRNLPRMLAALAQRYFTASLPFEKNCGADHICODDLSTFSFMSJDCLVG 796
Qy 781 GPREFNVTVVRNDEGDSYRTQVTFEPLDLYRKVSTLQNRQSRWLACESASSTEV 840
Db 797 SNELNAEVMVMNDGEDSDYGTITTFSSHAGLSRYVAEGQKQGLRSLHLTC--CSAPVG 854
Qy 841 SGALKSTSCSINHPIFENSEVFNITFEDVDSKSLGNKLLKANVTSENNMPRTNKEF 900
Db 855 SGGTWSSTCRINHIFRGAQITFLATFDVSPXAVGLDRLLLIANVSENNIPRTSKTIF 914
Qy 901 QLELPVYAYVYVVTSHGVSTKYLNFTAS-ENTSRVMQHOYOVSNLQGRSLPISLVEFLV 959
Db 915 QLELPVYAYVYVVTSHGVSTKYLNFTAS-ENTSRVMQHOYOVSNLQGRSLPISLVEFLV 974
Qy 960 VRLNQVIWDRPOVTFESNLSSTCHTKERLPSHSDFLAELRKAPVANCIAVCORIQC 1019
Db 975 VELNQEAVMMNDVEVSHPNDSLRCSSEKIAIPASDPLAHIOKNPVLDCSIAGCLRFRC 1034
Qy 1020 PFGCIOEERNAATLKGNLSFPMYIKTSHNHLIYSTAELIENDSVFTLLPQGAFAVRSQ 1079
Db 1035 PSFSVOEELDFTLKGNLSFGWVROILQKKVSVSVVAEIIPTSVYSQLPQOEAFMRAQ 1094
Qy 1080 TKVEPFEPVNPPLPLIVGSSVGGLLLLALITAAALYKLGFFKROYKDMMS 1128
Db 1095 TVEKYVNHPIPLIVGSSIGGLLLALITRAVLKYGVFFKROYKEMME 1143

Search completed: May 4, 2003, 13:39:15
Job time : 23.3333 sec

GenCore version 5.1.4_p5_4578
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OM protein - protein search, using SW model

Run on: May 4, 2003, 13:31:59 ; Search time 17.3333 Seconds
(without alignments)
1930.031 Million cell updates/sec

Title: US-09-902-481B-4

Perfect score: 5884

Sequence: 1 FNLDTENAMTFQENARGFQ.....FKRYKXDMMSRGPGAPQ 1137

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:*
1: /cgn2_6/prodata/1/1aa/5A_COMB.pep:*
2: /cgn2_6/prodata/1/1aa/5B_COMB.pep:*
3: /cgn2_6/prodata/1/1aa/6A_COMB.pep:*
4: /cgn2_6/prodata/1/1aa/6B_COMB.pep:*
5: /cgn2_6/prodata/1/1aa/PCTUS_COMB.pep:*
6: /cgn2_6/prodata/1/1aa/backfillseq1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	5882	99.5	1153	1 US-08-173-497-3	Sequence 3, App1
2	5882	99.5	1153	1 US-08-286-889-3	Sequence 3, App1
3	5882	99.5	1153	1 US-08-485-618-3	Sequence 3, App1
4	5882	99.5	1153	1 US-08-362-652-3	Sequence 3, App1
5	5882	99.5	1153	2 US-08-605-672-3	Sequence 3, App1
6	5882	99.5	1153	2 US-08-482-293A-3	Sequence 3, App1
7	5882	99.5	1153	2 US-08-943-363-3	Sequence 3, App1
8	5882	99.5	1153	4 US-09-193-043-3	Sequence 3, App1
9	5882	99.5	1152	4 US-09-688-307A-3	Sequence 3, App1
10	5821.5	98.9	1152	2 US-08-476-062A-43	Sequence 43, App1
11	5821.5	98.9	1152	6 PCT-US96-01314-43	Sequence 43, App1
12	5821.5	98.9	1152	6 PCT-US96-01314-43	Sequence 43, App1
13	3459	58.8	1163	2 US-08-476-062A-44	Sequence 44, App1
14	3459	58.8	1163	5 PCT-US96-01314-44	Sequence 44, App1
15	3459	58.8	1163	5 PCT-US96-01314-44	Sequence 44, App1
16	3459	58.8	1163	1 US-08-485-618-4	Sequence 4, App1
17	3459	58.8	1163	1 US-08-485-618-4	Sequence 4, App1
18	3459	58.8	1163	1 US-08-485-618-4	Sequence 4, App1
19	3459	58.8	1163	2 US-08-362-652-4	Sequence 4, App1
20	3459	58.8	1163	2 US-08-605-672-4	Sequence 4, App1
21	3459	58.8	1163	2 US-08-482-293A-4	Sequence 4, App1
22	3459	58.8	1163	2 US-08-943-363-4	Sequence 4, App1
23	3459	58.8	1163	4 US-09-193-043-4	Sequence 4, App1
24	3401	57.8	1161	4 US-09-688-307A-4	Sequence 2, App1
25	3401	57.8	1161	1 US-08-173-497-2	Sequence 2, App1
26	3401	57.8	1161	1 US-08-286-889-2	Sequence 2, App1
27	3401	57.8	1161	1 US-08-485-618-2	Sequence 2, App1

28	3401	57.8	1161	2 US-08-605-672-2	Sequence 2, App1
29	3401	57.8	1161	2 US-08-482-293A-2	Sequence 2, App1
30	3401	57.8	1161	2 US-08-943-363-2	Sequence 2, App1
31	3401	57.8	1161	4 US-09-193-043-2	Sequence 2, App1
32	3401	57.8	1161	4 US-09-688-307A-2	Sequence 2, App1
33	3385.5	57.5	1161	1 US-08-485-618-99	Sequence 99, App1
34	3385.5	57.5	1161	2 US-08-605-672-99	Sequence 99, App1
35	3385.5	57.5	1161	2 US-08-482-293A-99	Sequence 99, App1
36	3385.5	57.5	1161	2 US-08-943-363-99	Sequence 99, App1
37	3385.5	57.5	1161	4 US-09-193-043-99	Sequence 99, App1
38	3385.5	57.5	1161	4 US-09-688-307A-99	Sequence 99, App1
39	3224.5	54.8	1161	4 US-09-193-043-55	Sequence 55, App1
40	3224.5	54.8	1161	4 US-09-688-307A-55	Sequence 55, App1
41	3217.5	54.7	1161	1 US-08-485-618-55	Sequence 55, App1
42	3217.5	54.7	1161	1 US-08-362-652-55	Sequence 55, App1
43	3217.5	54.7	1161	2 US-08-605-672-55	Sequence 55, App1
44	3217.5	54.7	1161	2 US-08-482-293A-55	Sequence 55, App1
45	3217.5	54.7	1161	2 US-08-943-363-55	Sequence 55, App1

ALIGNMENTS

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RESULT 1
US-08-173-497-3
; Sequence 3, Application US/08173497
; Patent No. 5437958
; GENERAL INFORMATION:
; APPLICANT: Gallatin, W. Michael
; APPLICANT: Van Der Vliet, Monica
; TITLE OF INVENTION: No. 5437958e1 Human 2 Integrin Alpha
; TITLE OF INVENTION: Subunit
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 233 S. Wacker Drive, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/173,497
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5437958eand, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 27866/31363
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEFAX: 312-474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO. 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1153 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-173-497-3
;
; Query Match 99.5%; Score 5852; DB 1; Length 1153;
; Best Local Similarity 99.2%; Pred. No. 0;
; Matches 1128; Conservative 7; Mismatches 2; Indels 0; Gaps 0;
;
; Cy 1 FNLDTENAMTFQENARGFQSGSVVVLGGAPQEIYANQSGSLVYCDYSGSCPT 60
; Db 17 FNLDTENAMTFQENARGFQSGSVVVLGGAPQEIYANQSGSLVYCDYSGSCPT 76
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QY 61 RLQVPEAVNMSLGLSLAATTSPPQLACGPTVHQTCSNTYVKGICFLFGSNLRQOPK 120
DB 77 RLQVPEAVNMSLGLSLAATTSPPQLACGPTVHQTCSNTYVKGICFLFGSNLRQOPK 136
QY 121 FPEALRGCPEDSDIALILGSGSIIIPHDRRMKEWSTVMEOLKSKTLPJLMQYSEEF 180
DB 137 FPEALRGCPEDSDIALILGSGSIIIPHDRRMKEWSTVMEOLKSKTLPJLMQYSEEF 196
QY 181 RIHFTPEFQNNPRLSLIKPITQLLGRTHATGRLKRVRELFINITNGARKNAFKILFL 240
DB 197 RIHFTPEFQNNPRLSLIKPITQLLGRTHATGRLKRVRELFINITNGARKNAFKILFL 256
QY 241 TDGEKFGDPLGYEDVIPLEDRREGVIRYVIGVDAFSEKRSROELINTVASKPRDHVFOIN 300
DB 257 TDGEKFGDPLGYEDVIPLEDRREGVIRYVIGVDAFSEKRSROELINTVASKPRDHVFOIN 316
QY 301 NFEALKTIONOLREKIFAIEGTOTGSSSSFEHEMSOGFSAATISNGPLISTVGSYDMAG 360
DB 317 NFEALKTIONOLREKIFAIEGTOTGSSSSFEHEMSOGFSAATISNGPLISTVGSYDMAG 376
QY 361 GVEFLYTSKESTFIMNTRVSDMMNDAYLGYAAAIILNNRVOSLVGAPRYOHIGLVAMFR 420
DB 377 GVEFLYTSKESTFIMNTRVSDMMNDAYLGYAAAIILNNRVOSLVGAPRYOHIGLVAMFR 436
QY 421 QNTGMESNANVKGTOIGAYFGASLCSVDVDSNGSTDLVLIGAPHYEQTRGGQVSVCP 480
DB 437 QNTGMESNANVKGTOIGAYFGASLCSVDVDSNGSTDLVLIGAPHYEQTRGGQVSVCP 496
QY 481 PROGRARMOCDAYLXGQOGPMGRFGAALTVLGDVNDKLTDAVIGAPGEDNRGAYL 540
DB 497 PROGRARMOCDAYLXGQOGPMGRFGAALTVLGDVNDKLTDAVIGAPGEDNRGAYL 556
QY 541 HGTSGSISPSHSORLIGSLSPLOYFGQSLSGGODLTMGVLVTLVGAQGHVLLRSQ 600
DB 557 HGTSGSISPSHSORLIGSLSPLOYFGQSLSGGODLTMGVLVTLVGAQGHVLLRSQ 616
QY 601 PVLRYKAIMFNPREVARNVFECDQYVYKKEAGEVAVCLHVQSTRDLREGQIQSV 660
DB 617 PVLRYKAIMFNPREVARNVFECDQYVYKKEAGEVAVCLHVQSTRDLREGQIQSV 676
QY 661 YDLALDSGRHSAVAFNETKSTRROQVGLTQTCETLKLQPNCEJEDVSPVLRANF 720
DB 677 YDLALDSGRHSAVAFNETKSTRROQVGLTQTCETLKLQPNCEJEDVSPVLRANF 736
QY 721 SLVGTPLSAFGNLRPVLAEDAOQLFTALPPEKNCGNDNICODDLSTTFSPMSIDCLV 780
DB 737 SLVGTPLSAFGNLRPVLAEDAOQLFTALPPEKNCGNDNICODDLSTTFSPMSIDCLV 796
QY 781 GPREFNVTAVRNDGEDSYRTQVTFPPDLDSYRKVSTLQNSORSRMLACESASSTEV 840
DB 797 GPREFNVTAVRNDGEDSYRTQVTFPPDLDSYRKVSTLQNSORSRMLACESASSTEV 856
QY 841 SGALKSTSCSINPIPENSEVFNITFDVDSKASLKNKLLKANTVSENMPRTNTER 900
DB 857 SGALKSTSCSINPIPENSEVFNITFDVDSKASLKNKLLKANTVSENMPRTNTER 916
QY 901 QLELPVXYAVMYVTVSGVSTKYLNFTASENSTRVMOHOVQVSNLQORSPLISVFLVPV 960
DB 917 QLELPVXYAVMYVTVSGVSTKYLNFTASENSTRVMOHOVQVSNLQORSPLISVFLVPV 976
QY 961 RLNQTVIMDRPOVTFSENLSSTCHTKERLPSHSDFLAELKAPVNVCSIAVQRIQCDIP 1020
DB 977 RLNQTVIMDRPOVTFSENLSSTCHTKERLPSHSDFLAELKAPVNVCSIAVQRIQCDIP 1036
QY 1021 FPEALRGCPEDSDIALILGSGSIIIPHDRRMKEWSTVMEOLKSKTLPJLMQYSEEF 1080
DB 1037 FPEALRGCPEDSDIALILGSGSIIIPHDRRMKEWSTVMEOLKSKTLPJLMQYSEEF 1096
QY 1081 KVEPPEVNPPLPIVGSVGGLLLALITAAVYKGFKKQOYKDMMSGGAPGABPQ 1137
DB 1097 KVEPPEVNPPLPIVGSVGGLLLALITAAVYKGFKKQOYKDMMSGGAPGABPQ 1153

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RESULT 2
US-08-286-889-3
Sequence 3, Application US/08286889
Patent No. 5470953
GENERAL INFORMATION:
APPLICANT: Gallatin, W. Mich
APPLICANT: Van der Vieren, Monica
TITLE OF INVENTION: No. 5470953el Human 2 Integrin Alpha Subunit
NUMBER OF SEQUENCES: 51
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 233 South Wacker Drive, 6300 Sear Tower
CITY: Chicago
STATE: Illinois
COUNTRY: United States
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/286,889
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/173,497
FILING DATE: 23-DEC-1993
ATTORNEY/AGENT INFORMATION:
NAME: Williams Jr., Joseph A.
REGISTRATION NUMBER: P38,659
REFERENCE/DOCKET NUMBER: 27866/32168
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
TELEFAX: 312-474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1153 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-286-889-3
Query Match 99.5%; Score 5852; DB 1; Length 1153;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 1128; Conservative 7; Mismatches 2; Indels 0; Gaps 0;
QY 1 FNLDTENAMTFQENARFGQSVVOLQSGSRVVVGAPQEIIVANQSGSLYOCDSYSGSCEP 60
DB 17 FNLDTENAMTFQENARFGQSVVOLQSGSRVVVGAPQEIIVANQSGSLYOCDSYSGSCEP 76
QY 61 RLQVPEAVNMSLGLSLAATTSPPQLACGPTVHQTCSNTYVKGICFLFGSNLRQOPK 120
DB 77 RLQVPEAVNMSLGLSLAATTSPPQLACGPTVHQTCSNTYVKGICFLFGSNLRQOPK 136
QY 121 FPEALRGCPEDSDIALILGSGSIIIPHDRRMKEWSTVMEOLKSKTLPJLMQYSEEF 180
DB 137 FPEALRGCPEDSDIALILGSGSIIIPHDRRMKEWSTVMEOLKSKTLPJLMQYSEEF 196
QY 181 RIHFTPEFQNNPRLSLIKPITQLLGRTHATGRLKRVRELFINITNGARKNAFKILFL 240
DB 197 RIHFTPEFQNNPRLSLIKPITQLLGRTHATGRLKRVRELFINITNGARKNAFKILFL 256
QY 241 TDGEKFGDPLGYEDVIPLEDRREGVIRYVIGVDAFSEKRSROELINTVASKPRDHVFOIN 300
DB 257 TDGEKFGDPLGYEDVIPLEDRREGVIRYVIGVDAFSEKRSROELINTVASKPRDHVFOIN 316
QY 301 NFEALKTIONOLREKIFAIEGTOTGSSSSFEHEMSOGFSAATISNGPLISTVGSYDMAG 360
DB 317 NFEALKTIONOLREKIFAIEGTOTGSSSSFEHEMSOGFSAATISNGPLISTVGSYDMAG 376

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QY 361 GVEFLYTSKEKSTFIMNTRVDSMDNDAYLGAAAILLRNRVQSLVGAARYOHIGLVAMFR 420
DB 377 GVEFLYTSKEKSTFIMNTRVDSMDNDAYLGAAAILLRNRVQSLVGAARYOHIGLVAMFR 436
QY 421 QNTGMESNANVKGTOIGAYFGASLCSVDVDSNGSTDLVLIGAPHYEQTRGGQVSVCP 480
DB 437 QNTGMESNANVKGTOIGAYFGASLCSVDVDSNGSTDLVLIGAPHYEQTRGGQVSVCP 496
QY 481 PRGQARMOCDAVLGEQGGPMGRFGAALTVDVNGDKLTVAIGAPEGEDNRGAIVYLF 540
DB 497 PRGQARMOCDAVLGEQGGPMGRFGAALTVDVNGDKLTVAIGAPEGEDNRGAIVYLF 556
QY 541 HGTSGSGISPSHSORLAGSKLSPRLQYFGQSLSGODLTMDGLVDLTVAQGHVLLRSQ 600
DB 557 HGTSGSGISPSHSORLAGSKLSPRLQYFGQSLSGODLTMDGLVDLTVAQGHVLLRSQ 616
QY 601 PVLRYVAIMEFNREVARNVFECNDQYVKGKEGAYRVCLHVOKSTRDRIREGQISVVT 660
DB 617 PVLRYVAIMEFNREVARNVFECNDQYVKGKEGAYRVCLHVOKSTRDRIREGQISVVT 676
QY 661 YDLALDSGRPHSAVFNETKSTRROTQVGLTQTCETLKLQIPNCIEDPVSPIVRLNF 720
DB 677 YDLALDSGRPHSAVFNETKSTRROTQVGLTQTCETLKLQIPNCIEDPVSPIVRLNF 736
QY 721 SLVGTPLSAFAGNLRPVLAEDAQRLFTALPFEKNCNGNDNICODDLSTFSFMSLDCIYV 780
DB 737 SLVGTPLSAFAGNLRPVLAEDAQRLFTALPFEKNCNGNDNICODDLSTFSFMSLDCIYV 796
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DB 797 GPREFNVTYVRNDEGDSYRTQVTFPPPLDLSTRKYSTLONORSQSRWLACSSASTEV 856
QY 841 SGALKSTSCSINPIPENSEVFNTFDVDSKASLGNKLLKANTSENNMERTKTER 900
DB 857 SGALKSTSCSINPIPENSEVFNTFDVDSKASLGNKLLKANTSENNMERTKTER 916
QY 901 QLELPVKYAVYVWVTSHGVSSTKYLNFTASBNTSRVMOHQYQVNSLGORSLPISLVELPV 960
DB 917 QLELPVKYAVYVWVTSHGVSSTKYLNFTASBNTSRVMOHQYQVNSLGORSLPISLVELPV 976
QY 961 RLNQYIWMRPQVTFSENLSSTCHTERLPSHSDFLAELKAPVNCISIAVCORICDIP 1020
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DB 1037 FPGIOEFPNATLKGNSFDMYIKTSHNHLIIVSTAETLFENDSVFTLLPGGAFVRSOTET 1096
QY 1081 KYAPFEVNPPLPIVSGSVGLLLALITATLYKLGFFKQYQYKMMSEGGPPGAEPQ 1137
DB 1097 KYAPFEVNPPLPIVSGSVGLLLALITATLYKLGFFKQYQYKMMSEGGPPGAEPQ 1153

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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,618
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/173,497
FILING DATE: 23-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/286,889
FILING DATE: 5-AUG-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/362,652
FILING DATE: 21-DEC-1994
ATTORNEY/AGENT INFORMATION:
NAME: Williams Jr., Joseph A.
REGISTRATION NUMBER: 38,659
REFERENCE/DOCKET NUMBER: 27866/32797
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-0448
TELEFAX: 312-474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1153 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-485-618-3
Query Match 99.5%; Score 5852; DB 1; Length 1153;
Best Local Similarity 99.2%; Pred. No. 0; Matches 1128; Conservative 7; Mismatches 2; Indels 0; Gaps 0;
1 FNDTENAMTFOENARFGQSVVOLQSGRVVVGAPQEIYVAAQNGSLXOCDYSTGSCBPI 60
17 FNDTENAMTFOENARFGQSVVOLQSGRVVVGAPQEIYVAAQNGSLXOCDYSTGSCBPI 76
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197 RIHFTFEKFPQNNPNRSLIKPIITOLGRTHTATGLRKVRELFNITNGARKNAFKILVVI 256
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257 TDGEKFGDPLGYEDVIBELDRGVIRYVIGVDAPFSEKSRQELNTVASKPRDHVFOIN 316
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DB 377 GVEFLYTSKEKSTFIMNTRVDSMDNDAYLGAAAILLRNRVQSLVGAARYOHIGLVAMFR 436
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DB 437 QNTGMESNANVKGTOIGAYFGASLCSVDVDSNGSTDLVLIGAPHYEQTRGGQVSVCP 496
QY 481 PRGQARMOCDAVLGEQGGPMGRFGAALTVDVNGDKLTVAIGAPEGEDNRGAIVYLF 540
DB 497 PRGQARMOCDAVLGEQGGPMGRFGAALTVDVNGDKLTVAIGAPEGEDNRGAIVYLF 556
QY 541 HGTSGSGISPSHSORLAGSKLSPRLQYFGQSLSGODLTMDGLVDLTVAQGHVLLRSQ 600

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Db 557 HGTSGSISPSHSQRIAGSKLSPRLQYFGOSLSGGODLTMDGLVDLTVGAQGHVLLRSQ 616
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Db 617 PVLRYKAIMFENPREVARVNEECNDQVVKKEGGEVAVCLHVQSTRDRREGIOISVVT 676
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Qy 661 YDLALDSGRPHSAVFNENKSTRQTOVLGLTOTCETLKLQPCIEDVSPVLRANF 720
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Db 677 YDLALDSGRPHSAVFNENKSTRQTOVLGLTOTCETLKLQPCIEDVSPVLRANF 736
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Qy 721 SLVGTPLSAFNGLRPVLAEDAORLFTALFPFEKNGNDNICODDLSTTFSPMSIDCLVVG 780
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Db 737 SLVGTPLSAFNGLRPVLAEDAORLFTALFPFEKNGNDNICODDLSTTFSPMSIDCLVVG 796
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Qy 781 GREPENVTVVRNDEGDSYRTQVTFPPDLISYRKVSTLONORSORSMWLACESASSTEV 840
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Db 797 GREPENVTVVRNDEGDSYRTQVTFPPDLISYRKVSTLONORSORSMWLACESASSTEV 856
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841 SGALKSTSCSINHPIFENSEVTENITFDVDSKASLGKGLKLLKANYTSENMBRTNKTEP 900
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Qy 901 QLELPVKYANVYVNTSGVSTKYLNFASENTSRVMOHOVQVSNLQGRSLPISLVFLVPV 960
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Db 917 QLELPVKYAVYVNTSGVSTKYLNFASENTSRVMOHOVQVSNLQGRSLPISLVFLVPV 976
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Qy 961 RLMOQYIMDRPOVTFSENLSSTGHTKERLPSHSDFLAEKRAKAPVNCISIVCORICDIP 1020
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Db 977 RLMOQYIMDRPOVTFSENLSSTGHTKERLPSHSDFLAEKRAKAPVNCISIVCORICDIP 1036
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Qy 1021 FPGIOEFNATLKGNLSFDWYIKTSHNHLIIVSTAELLFNDVSFTLLPGQGAIVRSQTEP 1080
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Qy 1081 KXEPFEPNPLPLIVGSSVGGILLALITALYKLGFFKQYKQDMSEGPPGAEPQ 1137
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|||||
RESULT 4
US-08-362-652-3
; Sequence 3, Application US/08362652
; Patent No. 5766850
; GENERAL INFORMATION:
; APPLICANT: Gallatin, W. Michael
; APPLICANT: Van der Vlieten, Monica
; TITLE OF INVENTION: No. 5766850el Human 2 Integrin Alpha Subunit
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 233 South Wacker Drive, 6300 Sear Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/362,652
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/173,497
; FILING DATE: 23-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/286,889
; FILING DATE: 5-AUG-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams Jr., Joseph A.

```

```

; REGISTRATION NUMBER: 38,659
; REFERENCE/DOCKET NUMBER: 27866/32391
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEFAX: 312-474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1153 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-362-652-3

Query Match 99.5%; Score 5852; DB 1; Length 1153;
Best local similarity 99.2%; Pred. No. 0;
Matches 1128; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

Qy 1 FNIDTENAMTFQBNARFGQSVVOLQGSRRVVGAPQEIYAANORGSLYOCDYSTGSCBPI 60
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Db 17 FNIDTENAMTFQBNARFGQSVVOLQGSRRVVGAPQEIYAANORGSLYOCDYSTGSCBPI 76
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Qy 61 RLQVPVEAVNMSLGSLAATTSPPOLLACGPTVHOTCSENTYVKGLCFPGSNLRQOPK 120
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Db 77 RLQVPVEAVNMSLGSLAATTSPPOLLACGPTVHOTCSENTYVKGLCFPGSNLRQOPK 136
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Db 137 FPEALRGCEQEDSDIAFLIDSGSIIIPHFRMKENVSTVMEQLKKSKTLFSLMOYSEBF 196
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Qy 181 RHIFTFKEFQNNPNRSLIKPITOLLGRTHTATGKRVKRELFNTINGARKNAFKLLPLL 240
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Db 197 RHIFTFKEFQNNPNRSLIKPITOLLGRTHTATGKRVKRELFNTINGARKNAFKLLPLL 256
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Qy 241 TDGEKFGDPLGYEDVYPELDREGVIRYVGVGDARSEKSRQELNTVASKPRDHYFOIN 300
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Db 257 TDGEKFGDPLGYEDVYPELDREGVIRYVGVGDARSEKSRQELNTVASKPRDHYFOIN 316
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Qy 301 NFEALKTIONOLREKIPALIEGTOTGSSSFEHMSQEGSAITNSGPTLVGSYDMAG 360
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Db 317 NFEALKTIONOLREKIPALIEGTOTGSSSFEHMSQEGSAITNSGPTLVGSYDMAG 376
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Qy 361 GVFLYTSKESKSTFINNTRVDSDMNDAYLGAAAILLRNVQSLVGCAPRYOHIGLVAMER 420
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Db 377 GVFLYTSKESKSTFINNTRVDSDMNDAYLGAAAILLRNVQSLVGCAPRYOHIGLVAMER 436
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Qy 421 QNTGMESNANYKGTQIGAYFGASLCSVDVDSNGSTDVLIGAPHYEOTRGQVSVCP 480
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Qy 481 PPGORARWQCDVILVGEQGPWGRFGAALTIVGDNVGLTQVAIGAPSEEDNRGAVYLF 540
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Db 497 PPGORARWQCDVILVGEQGPWGRFGAALTIVGDNVGLTQVAIGAPSEEDNRGAVYLF 556
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Qy 541 HGTSGSISPSHSQRIAGSKLSPRLQYFGOSLSGGODLTMDGLVDLTVGAQGHVLLRSQ 600
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Db 557 HGTSGSISPSHSQRIAGSKLSPRLQYFGOSLSGGODLTMDGLVDLTVGAQGHVLLRSQ 616
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Qy 601 PVLRYKAIMFENPREVARVNEECNDQVVKKEGGEVAVCLHVQSTRDRREGIOISVVT 660
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Qy 661 YDLALDSGRPHSAVFNENKSTRQTOVLGLTOTCETLKLQPCIEDVSPVLRANF 720
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Db 677 YDLALDSGRPHSAVFNENKSTRQTOVLGLTOTCETLKLQPCIEDVSPVLRANF 736
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Qy 721 SLVGTPLSAFNGLRPVLAEDAORLFTALFPFEKNGNDNICODDLSTTFSPMSIDCLVVG 780
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Db 737 SLVGTPLSAFNGLRPVLAEDAORLFTALFPFEKNGNDNICODDLSTTFSPMSIDCLVVG 796
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Qy 781 GREPENVTVVRNDEGDSYRTQVTFPPDLISYRKVSTLONORSORSMWLACESASSTEV 840
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Db 797 GREFNVTYVANDGEDSRYTQVTFPPPLDLSYRKVSTLQONRSQSRWPLACESASTEV 856
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Db 857 SGALKSTSCSINHPIFPESEVTFNITFPVDKASLGNKLLKANTSENMPRTKTEF 916
Qy 901 QLELPYKAVVYVWVTSYSHVSTKYLNTFTASENSTRVWQHGYVSNLQGRSLPISLVLV 960
Db 917 QLELPYKAVVYVWVTSYSHVSTKYLNTFTASENSTRVWQHGYVSNLQGRSLPISLVLV 976
Qy 961 RINQVYIMRPQVTPSENLSTCHTKERLPSHSDFLAEIRKAPVYVNCISAVCORICODIP 1020
Db 977 RINQVYIMRPQVTPSENLSTCHTKERLPSHSDFLAEIRKAPVYVNCISAVCORICODIP 1036
Qy 1021 PFGIOEFPAATLKGNLSFPMYIKTSHNHLIYSTAEILFNDSVFTLLPGOGAFVRSQTEF 1080
Db 1037 PFGIOEFPAATLKGNLSFPMYIKTSHNHLIYSTAEILFNDSVFTLLPGOGAFVRSQTEF 1096
Qy 1081 KVEPEVPNPPLIVGSSVGLLLALLITAAIYKLGFPKRYKDMNSEGGPQAEPO 1137
Db 1097 KVEPEVPNPPLIVGSSVGLLLALLITAAIYKLGFPKRYKDMNSEGGPQAEPO 1153

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RESULT 5

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US-08-605-672-3
: Sequence 3, Application US/08605672
: Patent No. 5817515
: GENERAL INFORMATION:
: APPLICANT: Gallatin, W. Michael
: APPLICANT: Van der Vieren, Monica
: TITLE OF INVENTION: No. 5817515el Human 2 Integrin Alpha Subunit
: NUMBER OF SEQUENCES: 103
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
: STREET: 233 South Wacker Drive, 6300 Sear Tower
: CITY: Chicago
: STATE: Illinois
: COUNTRY: United States
: ZIP: 60606-6402
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/605,672
: FILING DATE:
: CLASSIFICATION: 530
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/173,497
: FILING DATE: 23-DEC-1993
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/286,889
: FILING DATE: 5-AUG-1994
: APPLICATION DATA:
: APPLICATION NUMBER: US 08/362,652
: FILING DATE: 21-DEC-1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Williams Jr., Joseph A.
: REGISTRATION NUMBER: 38,659
: REFERENCE/DOCKET NUMBER: 27866/32684
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 312-474-6300
: TELEFAX: 312-474-0448
: TELEX: 25-3856
: INFORMATION FOR SEQ ID NO: 3:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1153 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-08-605-672-3

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Query Match 99.5%; Score 5852; DB 2; Length 1153;
 Best Local Similarity 99.2%; Pred. No. 0;
 Matches 1128; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

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Qy 1 FNLDTEENMTFOENNRARGQSGSYVOQSGRVYVGAQOEIYVAAQNRSLVYCCDYSTGSCBEI 60
Db 17 FNLDTEENMTFOENNRARGQSGSYVOQSGRVYVGAQOEIYVAAQNRSLVYCCDYSTGSCBEI 76
Qy 61 RLOVEVEAVNMSLGLSLAATTSPPQLACGPTVHQCSENTYVKGICFLFGSNLRQOPK 120
Db 77 RLOVEVEAVNMSLGLSLAATTSPPQLACGPTVHQCSENTYVKGICFLFGSNLRQOPK 136
Qy 121 PFEALRGCPQEDSDIAFLIDSGSGSIIIPHFRRMKMVSIVMQLKSKXTLPFLMOYSEEF 180
Db 137 PFEALRGCPQEDSDIAFLIDSGSGSIIIPHFRRMKMVSIVMQLKSKXTLPFLMOYSEEF 196
Qy 181 RIHFTFKFQNNPNRSLIKPITQLGRTHTATGRLKRVRELFNITNGARKNAFKILPLL 240
Db 197 RIHFTFKFQNNPNRSLIKPITQLGRTHTATGRLKRVRELFNITNGARKNAFKILVVI 256
Qy 241 TDGEKRGDPLGVEDYIPELDREGVIRVYVGVGDARFSEKSRQELMTVASKPRDHVFOIN 300
Db 257 TDGEKRGDPLGVEDYIPELDREGVIRVYVGVGDARFSEKSRQELMTVASKPRDHVFOIN 316
Qy 301 NFEALKTIONQREKIPALEGTQTGSSSFHEHMSQEGFSAITNSGPLSTVGSYDMAG 360
Db 317 NFEALKTIONQREKIPALEGTQTGSSSFHEHMSQEGFSAITNSGPLSTVGSYDMAG 376
Qy 361 GVPLYTSKESKSTFINMTVRDSDMDAYIGYAAAILLRNVQSLVIGAPRYOHIGVAMFR 420
Db 377 GVPLYTSKESKSTFINMTVRDSDMDAYIGYAAAILLRNVQSLVIGAPRYOHIGVAMFR 436
Qy 421 ONTGMMESNANKGQIQIGAFGASLCSVDVDSNGSTDLVLCAPHYEOTRGQVSVCL 480
Db 437 ONTGMMESNANKGQIQIGAFGASLCSVDVDSNGSTDLVLCAPHYEOTRGQVSVCL 496
Qy 481 PFGORARQCDAVLVGEQGPWGRFGAALTIVGDNVGDCLTVAIGAPEEDNRGAVYLF 540
Db 497 PFGORARQCDAVLVGEQGPWGRFGAALTIVGDNVGDCLTVAIGAPEEDNRGAVYLF 556
Qy 541 HGTSGSGISPSHSQRIAGSKSLPRLOYFGQSLSGQDITMDGLVDTLVAQGHVILLRSQ 600
Db 557 HGTSGSGISPSHSQRIAGSKSLPRLOYFGQSLSGQDITMDGLVDTLVAQGHVILLRSQ 616
Qy 601 PVLRYKALMEFNPRAVAVFECNDQVYVKGAGEVRCVLAHQKSTRDLREGQIQSVYT 660
Db 617 PVLRYKALMEFNPRAVAVFECNDQVYVKGAGEVRCVLAHQKSTRDLREGQIQSVYT 676
Qy 661 YDLALDSGRPHRAVFNETKSTRQTOVLGLTOTCETLKLQLPNCIEBPVSPVYLRNLF 720
Db 677 YDLALDSGRPHRAVFNETKSTRQTOVLGLTOTCETLKLQLPNCIEBPVSPVYLRNLF 736
Qy 721 SLVGTPLSAFGNLRPYLAEDAQRLLFTALPFPKNCGNDNICDDLSITSFMSLDCLVVG 780
Db 737 SLVGTPLSAFGNLRPYLAEDAQRLLFTALPFPKNCGNDNICDDLSITSFMSLDCLVVG 796
Qy 781 GREFNVTYVANDGEDSRYTQVTFPPPLDLSYRKVSTLQONRSQSRWPLACESASTEV 840
Db 797 GREFNVTYVANDGEDSRYTQVTFPPPLDLSYRKVSTLQONRSQSRWPLACESASTEV 856
Qy 841 SGALKSTSCSINHPIFPESEVTFNITFPVDKASLGNKLLKANTSENMPRTKTEF 900
Db 857 SGALKSTSCSINHPIFPESEVTFNITFPVDKASLGNKLLKANTSENMPRTKTEF 916
Qy 901 QLELPYKAVVYVWVTSYSHVSTKYLNTFTASENSTRVWQHGYVSNLQGRSLPISLVLV 960
Db 917 QLELPYKAVVYVWVTSYSHVSTKYLNTFTASENSTRVWQHGYVSNLQGRSLPISLVLV 976
Qy 961 RINQVYIMRPQVTPSENLSTCHTKERLPSHSDFLAEIRKAPVYVNCISAVCORICODIP 1020
Db 977 RINQVYIMRPQVTPSENLSTCHTKERLPSHSDFLAEIRKAPVYVNCISAVCORICODIP 1036

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QY 1021 FFGIOEEFNATLKGNSFDMYIKTSHNHLIIVSTAEILFNDVSFTLLPGQAFVRSQET 1080
DB 1037 FFGIOEEFNATLKGNSFDMYIKTSHNHLIIVSTAEILFNDVSFTLLPGQAFVRSQET 1096
QY 1081 KVEPFEVNPPLIIVGSSVGGILLALITAAKYKGFKKOYKDMMSBGGPPGAEPQ 1137
DB 1097 KVEPFEVNPPLIIVGSSVGGILLALITAAKYKGFKKOYKDMMSBGGPPGAEPQ 1153

RESULT 6

US-08-482-293A-3
Sequence 3, Application US/08482293A
Patent No. 5831029

GENERAL INFORMATION:
APPLICANT: Gallatin, W. Michael
APPLICANT: Van der Vaeren, Monica
TITLE OF INVENTION: No. 5831029el Human 2 Integrin Alpha Subunit
NUMBER OF SEQUENCES: 103
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 233 South Wacker Drive, 6300 Sear Tower
CITY: Chicago
STATE: Illinois

COUNTRY: United States
ZIP: 60606-6402

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/482,293A
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/173,497
FILING DATE: 23-DEC-1993
APPLICATION DATA:
FILING DATE: 5-AUG-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/362,652
FILING DATE: 21-DEC-1994
ATTORNEY/AGENT INFORMATION:
NAME: Williams Jr., Joseph A.
REGISTRATION NUMBER: 38,659
REFERENCE/DOCKET NUMBER: 27866/32684
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
TELEFAX: 312-474-0448
TELEX: 25-3856

INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1153 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-482-293A-3

Query Match 99.5%; Score 5852; DB 2; Length 1153;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 1128; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

QY 1 FNDTENAMTFQENARFGQSVVQLOGSRVYVAPQEIYVANAORGSLYQCDYSTGCEPT 60
DB 17 FNDTENAMTFQENARFGQSVVQLOGSRVYVAPQEIYVANAORGSLYQCDYSTGCEPT 76
QY 61 RLQVPEAVNMSLGLSLAATSPPOLACGPTVHOTCSENTYVKGICFLFGSNLRQOPQK 120
DB 77 RLQVPEAVNMSLGLSLAATSPPOLACGPTVHOTCSENTYVKGICFLFGSNLRQOPQK 136
QY 121 FPEALGCGFOEBSDIAFLIDGSGSIIIPHDFRRKEMVSTVMEQLKSKTFLSLIMQSEEP 180

DB 137 FPEALGCGFOEBSDIAFLIDGSGSIIIPHDFRRKEMVSTVMEQLKSKTFLSLIMQSEEP 196
QY 181 RIHFTEKFEONPNPRLSLIKPITOLLGRTHTATGARKVRELFNITNGARKNAFKLLFLL 240
DB 197 RIHFTEKFEONPNPRLSLIKPITOLLGRTHTATGARKVRELFNITNGARKNAFKLLFLL 256
QY 241 TDGEKFPDPLGYEDVLPDLRSGVIRYVIGVDAPFRSEKROELNTVASKPPRDHVFQIN 300
DB 257 TDGEKFPDPLGYEDVLPDLRSGVIRYVIGVDAPFRSEKROELNTVASKPPRDHVFQIN 316
QY 301 NFEALKTIONQUREKIFALEGTOTGSSSFHEHMSGEGSAITSNGPLSLTYGSDMAG 360
DB 317 NFEALKTIONQUREKIFALEGTOTGSSSFHEHMSGEGSAITSNGPLSLTYGSDMAG 376
QY 361 GVFLYTSKESKSTFINNTRDSDNDNDAYLGAAAILRNVOQSLVGAAPRYOHIGLVAMFR 420
DB 377 GVFLYTSKESKSTFINNTRDSDNDNDAYLGAAAILRNVOQSLVGAAPRYOHIGLVAMFR 436
QY 421 QNTGMESNANVKGTOIGAYFGASLCSVDVDSNGSTDVLIGAPHYEEQTRGGQVSVCP 480
DB 437 QNTGMESNANVKGTOIGAYFGASLCSVDVDSNGSTDVLIGAPHYEEQTRGGQVSVCP 496
QY 481 PRGQARMOCDVLYGEGCQPMGRFGAALTIVGDVNGDKLTVYAIGAPGEBDNRGAVYLF 540
DB 497 PRGQARMOCDVLYGEGCQPMGRFGAALTIVGDVNGDKLTVYAIGAPGEBDNRGAVYLF 556
QY 541 HGTSGSGISPSHSORFASGLSPRLQYFGOSLSGGODLMDGVLDTLVAQGVILLRQ 600
DB 557 HGTSGSGISPSHSORFASGLSPRLQYFGOSLSGGODLMDGVLDTLVAQGVILLRQ 616
QY 601 PVLRYVAIMEFNPREVARNVFECDQVVKKEAGEVRYCLAYOKSTRDLREGQIQSVVT 660
DB 617 PVLRYVAIMEFNPREVARNVFECDQVVKKEAGEVRYCLAYOKSTRDLREGQIQSVVT 676
QY 661 YDLALDSGRPHSRAYVNETKSTRQTVLGLTQTCETLKQLPNCIEPVPYIVRLNF 720
DB 677 YDLALDSGRPHSRAYVNETKSTRQTVLGLTQTCETLKQLPNCIEPVPYIVRLNF 736
QY 721 SLVGTPLSAFGLRPLAADAORLFTALPPEKNGCNDNICODDISITSPMSLCLVVG 780
DB 737 SLVGTPLSAFGLRPLAADAORLFTALPPEKNGCNDNICODDISITSPMSLCLVVG 796
QY 781 GREFENVTYVNDGEDSYRTQVTFEPFLDLSYRKVSTLQONRSQSMRLACESASTEV 840
DB 797 GREFENVTYVNDGEDSYRTQVTFEPFLDLSYRKVSTLQONRSQSMRLACESASTEV 856
QY 841 SGALKSTGCSINHPIFPENSEVTFTFVDVSKASIGNLLKANTVSENNMPTKTEF 900
DB 857 SGALKSTGCSINHPIFPENSEVTFTFVDVSKASIGNLLKANTVSENNMPTKTEF 916
QY 901 QLELPVKYAVVWVYVSHGSTKYLNFTASENTSRVMOHOYOVSNIQORSPLSLVFLV 960
DB 917 QLELPVKYAVVWVYVSHGSTKYLNFTASENTSRVMOHOYOVSNIQORSPLSLVFLV 976
QY 961 RLNQTVIMDRPQVTESENLSCTHTEKRLPSHSDFLAEIRKAPVNVCSIAVQORIQCDIP 1020
DB 977 RLNQTVIMDRPQVTESENLSCTHTEKRLPSHSDFLAEIRKAPVNVCSIAVQORIQCDIP 1036
QY 1081 KVEPFEVNPPLIIVGSSVGGILLALITAAKYKGFKKOYKDMMSBGGPPGAEPQ 1137
DB 1097 KVEPFEVNPPLIIVGSSVGGILLALITAAKYKGFKKOYKDMMSBGGPPGAEPQ 1153

RESULT 7

US-08-943-363-3
Sequence 3, Application US/08943363
Patent No. 5837478
GENERAL INFORMATION:

APPLICANT: Gallatin, W. Michael
APPLICANT: Van der Vieren, Monica
TITLE OF INVENTION: No. 5837478e1 Human 2 Integrin Alpha Subunit
NUMBER OF SEQUENCES: 114
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 233 South Wacker Drive, 6300 Sear Tower
CITY: Chicago
STATE: Illinois
COUNTRY: United States
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/943,363
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/1173,497
FILING DATE: 23-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/286,889
FILING DATE: 5-AUG-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/362,652
FILING DATE: 21-DEC-1994
ATTORNEY/AGENT INFORMATION:
NAME: Williams Jr., Joseph A.
REGISTRATION NUMBER: 38,659
REFERENCE/DOCKET NUMBER: 27866/32684
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
TELEFAX: 312-474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1153 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-943-363-3

Query Match 99.5%; Score 5852; DB 2; Length 1153;
Best Local Similarity 99.2%; Pted. No. 0;
Matches 118; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

1 FNDTEANMTFOENARFGQSVVQLOGRVYVGAPOEIVANORGSLYOCDSYSGCEPI 60
17 FNDTERAMTFENARFGQSVVQLOGRVYVGAPOEIVANORGSLYOCDSYSGCEPI 76
61 RLOVPEAVNMSLGLSLAATSPOLLACGPTVHQTCSNTYVKGCLFLGSLNRQOPK 120
77 RLOVPEAVNMSLGLSLAATSPOLLACGPTVHQTCSNTYVKGCLFLGSLNRQOPK 136
121 FPPALRGCPEDBDIALINGSGSIIPHDRRMKEWSTYMEOLKSKTLPFLMQISEEP 180
137 FPPALRGCPEDBDIALINGSGSIIPHDRRMKEWSTYMEOLKSKTLPFLMQISEEP 196
181 RIHFTKEFPNNPRLIKPIITOLGRTHTATGLRKVRELFPNTGARKNAFKILFL 240
197 RIHFTKEFPNNPRLIKPIITOLGRTHTATGLRKVRELFPNTGARKNAFKILFL 256
241 TDEKFGDPLGYEDVJPELDREGVIRYVIGDAFRSEKSRQELINTVASKPRPDHVFQIN 300
257 TDEKFGDPLGYEDVJPELDREGVIRYVIGDAFRSEKSRQELINTVASKPRPDHVFQIN 316
301 NFPAKTIQOLAEKTAIGTQSGSSSFEHEMSOGCEFAATSNGLPLSTVGSYDMAG 360
317 NFPAKTIQOLAEKTAIGTQSGSSSFEHEMSOGCEFAATSNGLPLSTVGSYDMAG 376

361 GVFLYTSKEKSTFINMTRVDSMDNDAYLGYAAIILRNVSGLVIGAPRYOHIGLVAMR 420
377 GVFLYTSKEKSTFINMTRVDSMDNDAYLGYAAIILRNVSGLVIGAPRYOHIGLVAMR 436
421 QNTGMESNANVKGTOIGAYFASLCSVDVDSNGSTDLVLGAPHYEEOTRGQVSVCL 480
437 QNTGMESNANVKGTOIGAYFASLCSVDVDSNGSTDLVLGAPHYEEOTRGQVSVCL 496
481 PRGQRRMOCDAVLGEOGQPMGRFGAALTIVGDVNDGLTVAILGAPBEDNRGAVLFE 540
497 PRGQRRMOCDAVLGEOGQPMGRFGAALTIVGDVNDGLTVAILGAPBEDNRGAVLFE 556
541 HGTSGSGISPSHSORIASKSLPRLQYFGQSLSGGODLTMDLVDLTVAQGHVLLRSQ 600
557 HGTSGSGISPSHSORIASKSLPRLQYFGQSLSGGODLTMDLVDLTVAQGHVLLRSQ 616
601 PYLRVKAIMEFNPREVARNVPECNDQVYKGEAGEVRVCLHVQKSTRDLREGQIOSVVT 660
617 PYLRVKAIMEFNPREVARNVPECNDQVYKGEAGEVRVCLHVQKSTRDLREGQIOSVVT 676
661 YDLALDSGRPHSRAVNETKSTRQTOVLGLTNCETLKLQPNCTEDPVSPIVLRNF 720
677 YDLALDSGRPHSRAVNETKSTRQTOVLGLTNCETLKLQPNCTEDPVSPIVLRNF 736
721 SLVGTPLSAFGLRLPYLAEDAQRLFTALFPFEKNGCNDNICODDLSTFSPMSLCLVVG 780
737 SLVGTPLSAFGLRLPYLAEDAQRLFTALFPFEKNGCNDNICODDLSTFSPMSLCLVVG 796
781 GPREFNVTYVNDGEDSYRTQVTFEPPLDLSYRKVSTLQNRORSWFLACESASTEV 840
797 GPREFNVTYVNDGEDSYRTQVTFEPPLDLSYRKVSTLQNRORSWFLACESASTEV 856
841 SGALKSTSCSINHPIPRESEVTPNTPDVDSKASLGNLLIKAVTSNNMPRTKTEF 900
857 SGALKSTSCSINHPIPRESEVTPNTPDVDSKASLGNLLIKAVTSNNMPRTKTEF 916
901 QLELPVKAIVYVMTVSHGSTKYLNFTASENSTRVMOHOYVSNLQORSLPISLVLVAV 960
917 QLELPVKAIVYVMTVSHGSTKYLNFTASENSTRVMOHOYVSNLQORSLPISLVLVAV 976
961 RLNQTVIMDRPOVTFSENLSTCHTERLPSHSDFLAELRKA PVNVCISIAVQORICDIP 1020
977 RLNQTVIMDRPOVTFSENLSTCHTERLPSHSDFLAELRKA PVNVCISIAVQORICDIP 1036
1021 PRGIOEFNATLKGNLSFPMYIKTSNNHLLIVSTAEILFNDSVFTLLPQGAFAVRSQET 1080
1037 PRGIOEFNATLKGNLSFPMYIKTSNNHLLIVSTAEILFNDSVFTLLPQGAFAVRSQET 1096
1081 KYEPFEVNPPLPIVGSVGGILLALLITRALYKLGFFKQYKDMMSBEGPQGAEPQ 1137
1097 KYEPFEVNPPLPIVGSVGGILLALLITRALYKLGFFKQYKDMMSBEGPQGAEPQ 1153

RESULT 8
US-09-193-043-3
Sequence 3, Application us/09193043
Patent No. 6251395
GENERAL INFORMATION:
APPLICANT: Gallatin, Michael W.
APPLICANT: Van der Vieren, Monica
TITLE OF INVENTION: No. 6251395e1 Human 2
FILE REFERENCE: 27866/35004
CURRENT APPLICATION NUMBER: US/09/193,043
FILING DATE: 1998-11-16
EARLIER APPLICATION NUMBER: 08/173,497
FILING DATE: 1993-12-23
EARLIER APPLICATION NUMBER: 08/286,889
FILING DATE: 1994-08-05
EARLIER APPLICATION NUMBER: 08/362,652
FILING DATE: 1994-12-21
EARLIER APPLICATION NUMBER: 08/943,363
FILING DATE: 1997-10-03

NUMBER OF SEQ ID NOS: 114
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 3
LENGTH: 1153
TYPE: PR1
ORGANISM: Homo sapiens
US-09-193-043-3

Query Match 99.5%; Score 5852; DB 4; Length 1153;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 1128; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

1 FNDTENAMTFOENARFGOSVVOLOGSRVVGAPDEIVANAGRSGLYQCDYSGCEPI 60
17 FNDTENAMTFOENARFGOSVVOLOGSRVVGAPDEIVANAGRSGLYQCDYSGCEPI 76
QY 61 RLOVPVEAVNMSLGLSLAATSPPOLACGPTVHQTCSNTYVKGICFLFGSNLRQOPK 120
DB 77 RLOVPVEAVNMSLGLSLAATSPPOLACGPTVHQTCSNTYVKGICFLFGSNLRQOPK 136
121 FPEALRGCPQEDSDIAFLIDSGSIIIPHDPRMKEWSTVMEOLKSKTLFSLMOYSEEF 180
DB 137 FPEALRGCPQEDSDIAFLIDSGSIIIPHDPRMKEFVSTVMEOLKSKTLFSLMOYSEEF 196
QY 181 RIHFTKEFONNPNRSLIKPTQLGRTHTATGLRKVRELFNTNGARKNAFKILFLL 240
DB 197 RIHFTKEFONNPNRSLIKPTQLGRTHTATGLRKVRELFNTNGARKNAFKILFLL 256
QY 241 TDEKFGDPLGYEDVPELDRREGVIRYVIGVDAFSEKRSROELNTVASKPRPDHVFQIN 300
DB 257 TDEKFGDPLGYEDVPELDRREGVIRYVIGVDAFSEKRSROELNTVASKPRPDHVFQIN 316
QY 301 NFPAALKTIONQLEKIFAIEGTOTGSSSFEHMSOGFSAALTSNGLSTVGSYDMAG 360
DB 317 NFPAALKTIONQLEKIFAIEGTOTGSSSFEHMSOGFSAALTSNGLSTVGSYDMAG 376
QY 361 GVEFLYSKEKSTFNTMTRVSDMDNDAYLGAIAIILNRVQSLVGAARYOHIGLVAMFR 420
DB 377 GVEFLYSKEKSTFNTMTRVSDMDNDAYLGAIAIILNRVQSLVGAARYOHIGLVAMFR 436
QY 421 ONTGMESSNANVGTQIGAFGASLGVVDNSGSTDVLIIGAPHYEQRRGQVSCPL 480
DB 437 ONTGMESSNANVGTQIGAFGASLGVVDNSGSTDVLIIGAPHYEQRRGQVSCPL 496
QY 481 PRGQARAWQCDAYLYGEGOPMGWFGAALTVLGDVNGDKLTDAVIGAPEGEDNRGAAYLF 540
DB 497 PRGQARAWQCDAYLYGEGOPMGWFGAALTVLGDVNGDKLTDAVIGAPEGEDNRGAAYLF 556
QY 541 HGTSGSGISPSHSGORLAGSKLSPRLQYFGQSLGGQDLMGDLVLTVGAQGHVLLRSQ 600
DB 557 HGTSGSGISPSHSGORLAGSKLSPRLQYFGQSLGGQDLMGDLVLTVGAQGHVLLRSQ 616
QY 601 PVRVRYAIMEFNPREVARNVECDQDVYKKEGVEVVCVCHVOKSTRDRLEBOIQSVVT 660
DB 617 PVRVRYAIMEFNPREVARNVECDQDVYKKEGVEVVCVCHVOKSTRDRLEBOIQSVVT 676
QY 661 YDLALDSGRHSAVAFNETKSTRQTOVGLTQTCETLKLQLPNCIEDVPSIVLRLNF 720
DB 677 YDLALDSGRHSAVAFNETKSTRQTOVGLTQTCETLKLQLPNCIEDVPSIVLRLNF 736
QY 721 SLVGTPLSAFAGNLRPLAEDAQRLLFTALPFEKXGCGNDNICODDLSITFSFMSLDCLVVG 780
DB 737 SLVGTPLSAFAGNLRPLAEDAQRLLFTALPFEKXGCGNDNICODDLSITFSFMSLDCLVVG 796
QY 781 GPREFNVTYVRNDGDSYTTQVTFPPDLSTRKYSTLQONORSQRKWLACASASTEV 840
DB 797 GPREFNVTYVRNDGDSYTTQVTFPPDLSTRKYSTLQONORSQRKWLACASASTEV 856
QY 841 SGALKSTSCSINHPIFENSEVTNITFDVDSKASLGNKLLKANTYSENMMRTNTER 900
DB 857 SGALKSTSCSINHPIFENSEVTNITFDVDSKASLGNKLLKANTYSENMMRTNTER 916
QY 901 QLELPVKYAVVWVTSHGVSSTKYLNFTASBNTSRVMOHGYVNSLNGORSLLPISLVFLVPV 960

917 QLELPVKYAVVWVTSHGVSSTKYLNFTASBNTSRVMOHGYVNSLNGORSLLPISLVFLVPV 976
QY 961 RINQOTIMDRPOVTESENISTCHTERLPSSDPLAEELRKA PVNVCSTAVCORICDIP 1020
DB 977 RINQOTIMDRPOVTESENISTCHTERLPSSDPLAEELRKA PVNVCSTAVCORICDIP 1036
QY 1021 FPGIOEFNATLKNLSFDMYIKTSHNHLIVSTAELFNDSVFTLLPQOGAFVRSQTER 1080
DB 1037 FPGIOEFNATLKNLSFDMYIKTSHNHLIVSTAELFNDSVFTLLPQOGAFVRSQTER 1096
QY 1081 KYEPFEVNPPLIYVSSVIGLILLALITLALYKYGFFKQYKDMMSBEGPFGAEPQ 1137
DB 1097 KYEPFEVNPPLIYVSSVIGLILLALITLALYKYGFFKQYKDMMSBEGPFGAEPQ 1153

RESULT 9
US-09-688-307A-3
Sequence 3, Application US/09688307A

Patent No. 6432404
GENERAL INFORMATION:
APPLICANT: Gallatin, Michael W.
APPLICANT: Van der Vlieten, Monica
TITLE OF INVENTION: No. 6432404el Human Beta-2
FILE REFERENCE: 27866/36646
CURRENT APPLICATION NUMBER: US/09/688,307A
PRIOR FILING DATE: 2000-10-13
PRIOR APPLICATION NUMBER: 09/193,043
PRIOR FILING DATE: 1998-11-16
PRIOR APPLICATION NUMBER: 08/605,672
PRIOR FILING DATE: 1996-02-22
PRIOR APPLICATION NUMBER: 08/173,497
PRIOR FILING DATE: 1993-12-23
PRIOR APPLICATION NUMBER: 08/286,889
PRIOR FILING DATE: 1994-08-05
PRIOR APPLICATION NUMBER: 08/362,652
PRIOR FILING DATE: 1994-12-21
PRIOR APPLICATION NUMBER: 08/943,363
PRIOR FILING DATE: 1997-10-03
NUMBER OF SEQ ID NOS: 114
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 3
LENGTH: 1153
TYPE: PR1
ORGANISM: Homo sapiens
US-09-688-307A-3

Query Match 99.5%; Score 5852; DB 4; Length 1153;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 1128; Conservative 7; Mismatches 2; Indels 0; Gaps 0;

1 FNDTENAMTFOENARFGOSVVOLOGSRVVGAPDEIVANAGRSGLYQCDYSGCEPI 60
17 FNDTENAMTFOENARFGOSVVOLOGSRVVGAPDEIVANAGRSGLYQCDYSGCEPI 76
QY 61 RLOVPVEAVNMSLGLSLAATSPPOLACGPTVHQTCSNTYVKGICFLFGSNLRQOPK 120
DB 77 RLOVPVEAVNMSLGLSLAATSPPOLACGPTVHQTCSNTYVKGICFLFGSNLRQOPK 136
QY 121 FPEALRGCPQEDSDIAFLIDSGSIIIPHDPRMKEWSTVMEOLKSKTLFSLMOYSEEF 180
DB 137 FPEALRGCPQEDSDIAFLIDSGSIIIPHDPRMKEFVSTVMEOLKSKTLFSLMOYSEEF 196
QY 181 RIHFTKEFONNPNRSLIKPTQLGRTHTATGLRKVRELFNTNGARKNAFKILFLL 240
DB 197 RIHFTKEFONNPNRSLIKPTQLGRTHTATGLRKVRELFNTNGARKNAFKILFLL 256
QY 241 TDEKFGDPLGYEDVPELDRREGVIRYVIGVDAFSEKRSROELNTVASKPRPDHVFQIN 300
DB 257 TDEKFGDPLGYEDVPELDRREGVIRYVIGVDAFSEKRSROELNTVASKPRPDHVFQIN 316
QY 301 NFPAALKTIONQLEKIFAIEGTOTGSSSFEHMSOGFSAALTSNGLSTVGSYDMAG 360


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Db 317 NFEALKTIONOLREKIPALEGTOTSSSFEHEMOEGFSAITNSGPIILSTVGSYDMAG 376
Qy 361 GVEFLYSKEKSTFIMNTRVDSMDNDAYLGAAAIILRNVOGLVGAAPRYQHIGLVAMR 420
Db 377 GVEFLYSKEKSTFIMNTRVDSMDNDAYLGAAAIILRNVOGLVGAAPRYQHIGLVAMR 436
Qy 421 QNTGMESNANYKGTQIGAYFGASLCSVDVDSNGSTDLVLIGAPHYEGOTRGQVSVCP 480
Db 437 QNTGMESNANYKGTQIGAYFGASLCSVDVDSNGSTDLVLIGAPHYEGOTRGQVSVCP 496
Qy 481 PRGORARWOCDAVLGEQOGPMGRFGAALTIVLGDVNGDKLTDVAIGAPEEDNRGAIVYLF 540
Db 497 PRGORARWOCDAVLGEQOGPMGRFGAALTIVLGDVNGDKLTDVAIGAPEEDNRGAIVYLF 556
Qy 541 HGTSGSGISPSHSORLQAGSLSPRLQYFGQSLSGGODLTMGDLVDTLVGAQGHVLLRSQ 600
Db 557 HGTSGSGISPSHSORLQAGSLSPRLQYFGQSLSGGODLTMGDLVDTLVGAQGHVLLRSQ 616
Qy 601 PVLRVKAIMEFNEPREVARNVFECNDQVVGKKEAGEVRVCLHVQKSTRDLREGQISVVT 660
Db 617 PVLRVKAIMEFNEPREVARNVFECNDQVVGKKEAGEVRVCLHVQKSTRDLREGQISVVT 676
Qy 661 YDLALDSGSRPHSAVNETKNSRROTQVGLTQTCETLKLQIPNCIEDPVSPIVLRNLF 720
Db 677 YDLALDSGSRPHSAVNETKNSRROTQVGLTQTCETLKLQIPNCIEDPVSPIVLRNLF 736
Qy 721 SLVGTPLSAFGNLRPLAEDAOBLFTALFPFKNCGNDNICODDLSITFSFMSLDCLVNG 780
Db 737 SLVGTPLSAFGNLRPLAEDAOBLFTALFPFKNCGNDNICODDLSITFSFMSLDCLVNG 796
Qy 781 GPEFENVTVTVNRNGEDSYRTQVTFEPPLDLSYRKVSTLONQORSQSWRLACASASTEV 840
Db 797 GPEFENVTVTVNRNGEDSYRTQVTFEPPLDLSYRKVSTLONQORSQSWRLACASASTEV 856
Qy 841 SGALKSTSGSINRPIPEPSEVFNITTPVDLSQASLGNKILLKANTSENMMRTKTER 900
Db 857 SGALKSTSGSINRPIPEPSEVFNITTPVDLSQASLGNKILLKANTSENMMRTKTER 916
Qy 901 QLELPKXAVYVWVTVSHGVSTKYLNTFASENTSRVMOHQOVSNLGRSLPISLVELVRY 960
Db 917 QLELPKXAVYVWVTVSHGVSTKYLNTFASENTSRVMOHQOVSNLGRSLPISLVELVRY 976
Qy 961 RLNQTVIMRPOVTFSENLSTCHTKERLPSHSDFLAELRKAVNCSIAVCORICODIP 1020
Db 977 RLNQTVIMRPOVTFSENLSTCHTKERLPSHSDFLAELRKAVNCSIAVCORICODIP 1036
Qy 1021 FPGIOEFENATLKGNLSFDMYITKSHNHLIVSTAEILFNDVSFTLLPGQAGVRSCTER 1080
Db 1037 FPGIOEFENATLKGNLSFDMYITKSHNHLIVSTAEILFNDVSFTLLPGQAGVRSCTER 1096
Qy 1081 KVEPFEVNPPLIVGSSVGGLLLLALITAAKYKLGFFKQYKDMMSBGGPPGAEPQ 1137
Db 1097 KVEPFEVNPPLIVGSSVGGLLLLALITAAKYKLGFFKQYKDMMSBGGPPGAEPQ 1153

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RESULT 10
US-08-476-062A-43
Sequence 43. Application US/08476062A

Patent No. 5877275
GENERAL INFORMATION:
APPLICANT: Arnaout, M. Amin
TITLE OF INVENTION: CONTROLLING CELLULAR IMMUNE/INFLAMMATORY
TITLE OF INVENTION: RESPONSES WITH BETA2 INTEGRINS
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette

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COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/476,062A
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/216,081
FILING DATE: 21-MAR-1994
APPLICATION NUMBER: 07/637,830
FILING DATE: 04-JAN-1991
APPLICATION NUMBER: 07/539,842
FILING DATE: 18-JUN-1990
APPLICATION NUMBER: 07/212,573
FILING DATE: 28-JUN-1988
ATTORNEY/AGENT INFORMATION:
NAME: Freeman, John W.
REGISTRATION NUMBER: 29,066
REFERENCE/DOCKET NUMBER: 00786/068003
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
TELEFAX: 617/542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 1152 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: Internal
US-08-476-062A-43

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Query Match 98.9% Score 5821.5; DB 2; Length 1152;

Best Local Similarity 98.9% Pred. No. 0; Matches 1125; Conservative 7; Mismatches 4; Indels 1; Gaps 1;

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Qy 1 FNLDENAMTFOENARFGOSVVOLOGSRVYVAGPOEIVANORGLYQCDYSTGSCBEI 60
Db 17 FNLDENAMTFOENARFGOSVVOLOGSRVYVAGPOEIVANORGLYQCDYSTGSCBEI 76
Qy 61 RLQVPEAVNMLSLGSLAATTPPOLLAGCPVTHQTCSENTYVYKGLCFGSLNLAQOPK 120
Db 77 RLQVPEAVNMLSLGSLAATTPPOLLAGCPVTHQTCSENTYVYKGLCFGSLNLAQOPK 136
Qy 121 PFEALRGCPQESDIAFLIDSGSIIIPHFRMKEMVSTVMEQLKSKXTLPSLMQSEBF 180
Db 137 PFEALRGCPQESDIAFLIDSGSIIIPHFRMKEMVSTVMEQLKSKXTLPSLMQSEBF 196
Qy 181 RHFTFEKFPNNPNRSLIKPITOLLGRTHATGLRKVRELFNITNGARKNAFKILFLL 240
Db 197 RHFTFEKFPNNPNRSLIKPITOLLGRTHATGLRKVRELFNITNGARKNAFKILFLL 256
Qy 241 TQGEKRPGLGYEDVYIPELDREGVIRYVIGVDARSEKSRQELTVMSKPPRDHYFOIN 300
Db 257 TQGEKRPGLGYEDVYIPELDREGVIRYVIGVDARSEKSRQELTVMSKPPRDHYFOIN 316
Qy 301 NFEALKTIONOLREKIPALEGTOTSSSFEHEMOEGFSAITNSGPIILSTVGSYDMAG 360
Db 317 NFEALKTIONOLREKIPALEGTOTSSSFEHEMOEGFSAITNSGPIILSTVGSYDMAG 376
Qy 361 GVEFLYSKEKSTFIMNTRVDSMDNDAYLGAAAIILRNVOGLVGAAPRYQHIGLVAMR 420
Db 377 GVEFLYSKEKSTFIMNTRVDSMDNDAYLGAAAIILRNVOGLVGAAPRYQHIGLVAMR 436
Qy 421 QNTGMESNANYKGTQIGAYFGASLCSVDVDSNGSTDLVLIGAPHYEGOTRGQVSVCP 480
Db 437 QNTGMESNANYKGTQIGAYFGASLCSVDVDSNGSTDLVLIGAPHYEGOTRGQVSVCP 496
Qy 481 PRGORARWOCDAVLGEQOGPMGRFGAALTIVLGDVNGDKLTDVAIGAPEEDNRGAIVYLF 540
Db 497 PRGORARWOCDAVLGEQOGPMGRFGAALTIVLGDVNGDKLTDVAIGAPEEDNRGAIVYLF 555
Qy 541 HGTSGSGISPSHSORLQAGSLSPRLQYFGQSLSGGODLTMGDLVDTLVGAQGHVLLRSQ 600

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556 HGTSGSGISPSHQRIAGSKLSPLQYFGOSLSGQDLTMDGLVLDLVGAQGHVLLRSQ 615
QY 601 PVLRYKAIMFENPREVARVAFECNDQVYKKEAGEVAVCLHVOKSTRDRREGIOISVVT 660
DB 616 PVLRYKAIMFENPREVARVAFECNDQVYKKEAGEVAVCLHVOKSTRDRREGIOISVVT 675
QY 661 YDLALDSGRPHSAVAFNETKSTRQTOVLGLTQTCETLKLQPNCTIEDPVPVILRLNF 720
DB 676 YDLALDSGRPHSAVAFNETKSTRQTOVLGLTQTCETLKLQPNCTIEDPVPVILRLNF 735
QY 721 SLVGTPLSAFNGRLPVLAEDAQRLLFTLFPFKKCGNDNICODDLSTTFMSLDCLVYG 780
DB 736 SLVGTPLSAFNGRLPVLAEDAQRLLFTLFPFKKCGNDNICODDLSTTFMSLDCLVYG 795
QY 781 GPREFNVTYVRNDGEDSYRTQVTFPPDLSTRKYSTLQNSQNSMRILACESASSTEV 840
DB 796 GPREFNVTYVRNDGEDSYRTQVTFPPDLSTRKYSTLQNSQNSMRILACESASSTEV 855
841 SGALKSTCSINHPIFENSEVTFNITFDVDSKASLGKLLKANTSENMPRTNKTEF 900
856 SGALKSTCSINHPIFENSEVTFNITFDVDSKASLGKLLKANTSENMPRTNKTEF 915
QY 901 QLELPVKYAVYMYVTSGVSTKILNFTASENTSRVMOHOYQVSNLQORSIPISLVFLVPV 960
DB 916 QLELPVKYAVYMYVTSGVSTKILNFTASENTSRVMOHOYQVSNLQORSIPISLVFLVPV 975
QY 961 RLNQTVMDRPOYTFSENLSSTCHTERLPSHSDFLAEELKAPVNSIIVCORIQDIP 1020
DB 976 RLNQTVMDRPOYTFSENLSSTCHTERLPSHSDFLAEELKAPVNSIIVCORIQDIP 1035
QY 1021 FPGIOEFNATLKGNSLFDWYIKTSHNLLIVSTAEILLFNDSVFTLLPGQAFVRSQET 1080
DB 1036 FPGIOEFNATLKGNSLFDWYIKTSHNLLIVSTAEILLFNDSVFTLLPGQAFVRSQET 1095
QY 1081 KVRPEFVNPPLPIVGSVVGGLLILAITALYKLGFKQYKDMSEGGPPGAEPQ 1137
DB 1096 KVRPEFVNPPLPIVGSVVGGLLILAITALYKLGFKQYKDMSEGGPPGAEPQ 1152

RESULT 11
PCT-US96-01314-43
; Sequence 43, Application PC/TUS9601314
; GENERAL INFORMATION:
; APPLICANT: M. Amin Arnaout
; TITLE OF INVENTION: METHODS FOR IDENTIFYING INTEGRIN
; TITLE OF INVENTION: ANTAGONISTS
; NUMBER OF SEQUENCES: 78
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 MB
; COMPUTER: IBM PS/2 Model 502 or 558X
; OPERATING SYSTEM: MS-DOS (Version 5.0)
; SOFTWARE: Wordperfect (Version 5.1)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/01314
; FILING DATE: 30-JAN-96
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/380,167
; FILING DATE: 30-JAN-95
; ATTORNEY/AGENT INFORMATION:
; NAME: John W. Freeman
; REGISTRATION NUMBER: 29,066
; REFERENCE/DOCKET NUMBER: 00786/267001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 542-5070
; TELEFAX: (617) 542-8906

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;
; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1152
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
PCT-US96-01314-43

Query Match      98.9%; Score 5821.5; DB 5; Length 1152;
Best Local Similarity 98.9%; Pred. No. 0;
Matches 1125; Conservative 7; Mismatches 4; Indels 1; Gaps 1;

QY 1 FNLDENAMTFOENARFGQSVVYVGGAPDEIVAAVNRGSLYQCDYSTGSCBP 60
DB 17 FNLDENAMTFOENARFGQSVVYVGGAPDEIVAAVNRGSLYQCDYSTGSCBP 76
QY 61 RLQVPEAVNMSLGLSLATTSPPQLACGPTVHQCSENTYVKGCLFPGSLRQOPK 120
DB 77 RLQVPEAVNMSLGLSLATTSPPQLACGPTVHQCSENTYVKGCLFPGSLRQOPK 136
QY 121 FPEALRGCPQEDSDIAFLIDGSGSIIIPHDFRMKENVSTVMEQLKSKTLFSIMOYSEEF 180
DB 137 FPEALRGCPQEDSDIAFLIDGSGSIIIPHDFRMKENVSTVMEQLKSKTLFSIMOYSEEF 196
QY 181 RHIFTFKEQNNPNRSLIKPITOLLGRTHATGLRKVRELFININGARKNAFKILFLL 240
DB 197 RHIFTFKEQNNPNRSLIKPITOLLGRTHATGLRKVRELFININGARKNAFKILVYI 256
QY 241 TDGEKGDPLGVEDVPELDRGCVIRYVGVGDAPRSEKSRQELNVAKPRPDHVFQIN 300
DB 257 TDGEKGDPLGVEDVPELDRGCVIRYVGVGDAPRSEKSRQELNVAKPRPDHVFQIN 316
QY 301 NFPAKTIQNLREKIFALEGTQTSSEFHEHMSQEGFSAATNSGPLSTVGSYDMAG 360
DB 317 NFPAKTIQNLREKIFALEGTQTSSEFHEHMSQEGFSAATNSGPLSTVGSYDMAG 376
QY 361 GVEFLYTSKESKSTFINNTRVDSMDNDAYILGYAAIILRNVOGLVIGAPRYOHIGLVAMFR 420
DB 377 GVEFLYTSKESKSTFINNTRVDSMDNDAYILGYAAIILRNVOGLVIGAPRYOHIGLVAMFR 436
QY 421 QNTGMESSNANKGTQIGAFGASLCSVDVDSNGSTDLVIGAPHYEDTGRGQVSVCEL 480
DB 437 QNTGMESSNANKGTQIGAFGASLCSVDVDSNGSTDLVIGAPHYEDTGRGQVSVCEL 496
QY 481 PRCGRARWOCDAVLXGEOGQPMGRFGAALTVDVNGDKLTVAIGAPEEDNRGAVYLF 540
DB 497 PRCGRARWOCDAVLXGEOGQPMGRFGAALTVDVNGDKLTVAIGAPEEDNRGAVYLF 555
QY 541 HGTSGSGISPSHQRIAGSKLSPLQYFGOSLSGQDLTMDGLVLDLVGAQGHVLLRSQ 600
DB 556 HGTSGSGISPSHQRIAGSKLSPLQYFGOSLSGQDLTMDGLVLDLVGAQGHVLLRSQ 615
QY 601 PVLRYKAIMFENPREVARVAFECNDQVYKKEAGEVAVCLHVOKSTRDRREGIOISVVT 660
DB 616 PVLRYKAIMFENPREVARVAFECNDQVYKKEAGEVAVCLHVOKSTRDRREGIOISVVT 675
QY 661 YDLALDSGRPHSAVAFNETKSTRQTOVLGLTQTCETLKLQPNCTIEDPVPVILRLNF 720
DB 676 YDLALDSGRPHSAVAFNETKSTRQTOVLGLTQTCETLKLQPNCTIEDPVPVILRLNF 735
QY 721 SLVGTPLSAFNGRLPVLAEDAQRLLFTLFPFKKCGNDNICODDLSTTFMSLDCLVYG 780
DB 736 SLVGTPLSAFNGRLPVLAEDAQRLLFTLFPFKKCGNDNICODDLSTTFMSLDCLVYG 795
QY 781 GPREFNVTYVRNDGEDSYRTQVTFPPDLSTRKYSTLQNSQNSMRILACESASSTEV 840
DB 796 GPREFNVTYVRNDGEDSYRTQVTFPPDLSTRKYSTLQNSQNSMRILACESASSTEV 855
QY 841 SGALKSTCSINHPIFENSEVTFNITFDVDSKASLGKLLKANTSENMPRTNKTEF 900
DB 856 SGALKSTCSINHPIFENSEVTFNITFDVDSKASLGKLLKANTSENMPRTNKTEF 915

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Qy 901 QLELPVKAVVWVVTSHGVTXYLNFTASENTSRVMOHQOVSNIQORSLPISLVLEPV 960
Db 916 QLELPVKAVVWVVTSHGVTXYLNFTASENTSRVMOHQOVSNIQORSLPISLVLEPV 975
Qy 961 RLNQYIWMRPQVTFSENLSTCHTKERLPSHSDFLAELRKAPVNVCSIAVCORIQCDIP 1020
Db 976 RLNQYIWMRPQVTFSENLSTCHTKERLPSHSDFLAELRKAPVNVCSIAVCORIQCDIP 1035
Qy 1021 FPGIOEFNATLKGNLSFPMYIKTSHNHLIYSTAEILFNDSVFTLLPGOGAFVRSQDET 1080
Db 1036 FPGIOEFNATLKGNLSFPMYIKTSHNHLIYSTAEILFNDSVFTLLPGOGAFVRSQDET 1095
Qy 1081 KYEPFVNPPLPLIVGSSVGGLLLLALITLALYKGFPRQYKDMMSSEGGPGAEPO 1137
Db 1096 KYEPFVNPPLPLIVGSSVGGLLLLALITLALYKGFPRQYKDMMSSEGGPGAEPO 1152

RESULT 12
Patent No. 5424399
APPLICANT: ARNAOUT, M. AMIN
TITLE OF INVENTION: HUMAN CR3a/b HETERODIMERS
NUMBER OF SEQUENCES: 12
CURRENT APPLICATION DATA:
FILING DATE: 16-JUN-1993
PRIORITY APPLICATION DATA:
PRIORITY APPLICATION NUMBER: 539,842
FILING DATE: 18-JUN-1990
APPLICATION NUMBER: 212,573
FILING DATE: 28-JUN-1988
SEQ ID NO: 2
LENGTH: 1152

Query Match 98.9%; Score 5821.5; DB 6; Length 1152;
Best Local Similarity 98.9%; Pred. No. 0;
Matches 1125; Conservative 7; Mismatches 4; Indels 1; Gaps 1;

Qy 1 FNDITENAMFOENARFGOSVVOLOGSRVVGAPQEIIVANQNGSLYQCDYSTGSCSEPT 60
Db 17 FNDITENAMFOENARFGOSVVOLOGSRVVGAPQEIIVANQNGSLYQCDYSTGSCSEPT 76
Qy 61 RLQVPVAVNMSLGLSLAATTSPPQLACGPTVYHOTCSENVYKGLFGLFSGNLROOPQK 120
Db 77 RLQVPVAVNMSLGLSLAATTSPPQLACGPTVYHOTCSENVYKGLFGLFSGNLROOPQK 136
Qy 121 FPEALRGCPQEDSDIAFLIDSGSIIIPHDFRMKEWVSTVMEQIKSKTLPFSLMQYSEEF 180
Db 137 FPEALRGCPQEDSDIAFLIDSGSIIIPHDFRMKEWVSTVMEQIKSKTLPFSLMQYSEEF 196
Qy 181 RIHFTFEFQNNRPRSLIRPITOLLGRTHATGLRKVVELPITNGARKNAFKILFVL 240
Db 197 RIHFTFEFQNNRPRSLIRPITOLLGRTHATGLRKVVELPITNGARKNAFKILFVL 256
Qy 241 TDGKFPDPLGYEBVYIPELPRREGVIRYVIGVDAFRSEKSRQELANTVASKPRPDHVFQIN 300
Db 257 TDGKFPDPLGYEBVYIPELPRREGVIRYVIGVDAFRSEKSRQELANTVASKPRPDHVFQIN 316
Qy 301 NFEALKTIONQREKIFAIEGTQOTGSSSSPEHEWQEGFSAITNSGPLLSTVGSYDMAG 360
Db 317 NFEALKTIONQREKIFAIEGTQOTGSSSSPEHEWQEGFSAITNSGPLLSTVGSYDMAG 376
Qy 361 GVLPLYSKEKSTFINMRVDSMDNDAYLGAAAILLRNROSLVLAGPRYOHIGLVAMFR 420
Db 377 GVLPLYSKEKSTFINMRVDSMDNDAYLGAAAILLRNROSLVLAGPRYOHIGLVAMFR 436
Qy 421 QNTGMSNNANVKGTQIGAYFGASLCSDVDNSGSTDVLIGAPHYYEQRGGQVSCPL 480
Db 437 QNTGMSNNANVKGTQIGAYFGASLCSDVDNSGSTDVLIGAPHYYEQRGGQVSCPL 496
Qy 481 PRGQARWQCDVLYGEOGQPMGRFGAALTVLGDVNGDKLTDVAIGAPGEEDNRGAAYLF 540

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Db 497 PRG-QARWQCDVLYGEOGQPMGRFGAALTVLGDVNGDKLTDVAIGAPGEEDNRGAAYLF 555
Qy 541 HGTSSGSGISPSHSGRIAGSKLSPRLQYFGOSLSGGODLTMDGLVDTLTVGAQGHVLLRSQ 600
Db 556 HGTSSGSGISPSHSGRIAGSKLSPRLQYFGOSLSGGODLTMDGLVDTLTVGAQGHVLLRSQ 615
Qy 601 PVLRYKAIEMFNPREVARNVEFCNDQVYKKEAGEVRYCLHVQKSTRDLRREGQIQSVYT 660
Db 616 PVLRYKAIEMFNPREVARNVEFCNDQVYKKEAGEVRYCLHVQKSTRDLRREGQIQSVYT 675
Qy 661 YDLALDSGRPHRAVENFKNSTRTROTQVGLTORCETLKLQLPNCIEDPVSPVILRLNF 720
Db 676 YDLALDSGRPHRAVENFKNSTRTROTQVGLTORCETLKLQLPNCIEDPVSPVILRLNF 735
Qy 721 SLVGTPLSAFGNLRPVLAEDAQRLFTALFPPEKNGCNDNICODDISITFSFMSLQCLVYG 780
Db 736 SLVGTPLSAFGNLRPVLAEDAQRLFTALFPPEKNGCNDNICODDISITFSFMSLQCLVYG 795
Qy 781 GPREFNVTYVANDGEDSYRTQVTEFFPLDLSYRKVSTLQNGRSQSWRLACESASSTEV 840
Db 796 GPREFNVTYVANDGEDSYRTQVTEFFPLDLSYRKVSTLQNGRSQSWRLACESASSTEV 855
Qy 841 SGALKSTSGSINHPIFPENSEVTNITPDVDSKASLGNKLLKANVTSNNMPRTNKTIEF 900
Db 856 SGALKSTSGSINHPIFPENSEVTNITPDVDSKASLGNKLLKANVTSNNMPRTNKTIEF 915
Qy 901 QLELPVKAVVWVVTSHGVTXYLNFTASENTSRVMOHQOVSNIQORSLPISLVLEPV 960
Db 916 QLELPVKAVVWVVTSHGVTXYLNFTASENTSRVMOHQOVSNIQORSLPISLVLEPV 975
Qy 961 RLNQYIWMRPQVTFSENLSTCHTKERLPSHSDFLAELRKAPVNVCSIAVCORIQCDIP 1020
Db 976 RLNQYIWMRPQVTFSENLSTCHTKERLPSHSDFLAELRKAPVNVCSIAVCORIQCDIP 1035
Qy 1021 FPGIOEFNATLKGNLSFPMYIKTSHNHLIYSTAEILFNDSVFTLLPGOGAFVRSQDET 1080
Db 1036 FPGIOEFNATLKGNLSFPMYIKTSHNHLIYSTAEILFNDSVFTLLPGOGAFVRSQDET 1095
Qy 1081 KYEPFVNPPLPLIVGSSVGGLLLLALITLALYKGFPRQYKDMMSSEGGPGAEPO 1137
Db 1096 KYEPFVNPPLPLIVGSSVGGLLLLALITLALYKGFPRQYKDMMSSEGGPGAEPO 1152

RESULT 13
US-08-476-062A-44
Sequence 44, Application US/08476062A
Patent No. 5877275
GENERAL INFORMATION:
APPLICANT: Arnaout, M. Amin
TITLE OF INVENTION: CONTROLLING CELLULAR IMMUNE/INFLAMMATORY
TITLE OF INVENTION: RESPONSES WITH BETA2 INTEGRINS
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Fish & Richardson P. C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: Fast-SEO for Windows Version 2.0
CURRENT APPLICATION DATA:
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: US/08/476,062A
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/216,081
FILING DATE: 21-MAR-1994
APPLICATION NUMBER: 07/637,830
FILING DATE: 04-JUN-1991
APPLICATION NUMBER: 07/539,842

```

FILING DATE: 18-JUN-1990
 APPLICATION NUMBER: 07/212,573
 FILING DATE: 28-JUN-1988
 ATTORNEY/AGENT INFORMATION:
 NAME: Freeman, John W.
 REGISTRATION NUMBER: 29,066
 REFERENCE/DOCKET NUMBER: 00786/068003
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 617/542-5070
 TELEFAX: 617/542-8906
 TELEX: 200154
 INFORMATION FOR SEQ ID NO: 44:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1163 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-476-062A-44

Query Match 58.8%; Score 3459; DB 2; Length 1163;
 Best Local Similarity 60.9%; Pred. No. 9,5e-290;
 Matches 687; Conservative 142; Mismatches 294; Indels 6; Gaps 4;

QY 1 ENIDTEMAMFOENARFGSGSVYVLOGSRVYVGAPOEIVANQRGSLYQCDYSTGSGCEPT 60
 DB 20 FNLDTBELTAFRVDASAFGDSVQYANSMVYVGAPOKITANQGLYQCGYSTGACEPT 79
 QY 61 RLQVPEAVVNSLGLSLAATTSPPQLACGPTVYHQTCEVTYVYKGLCFPSNLRQOPK 120
 DB 80 GLQVPEAVVNSLGLSLAATTSPPQLACGPTVYHQTCEVTYVYKGLCFPSNLRQOPK 137
 QY 121 PEARLRCGPOEDSDIAFLIDGSGSIIPHDPRMKWVSTVMEQIKSKTLPMLQYSEEP 180
 DB 138 LPVSRQCPROEODIVFLIDGSGSIISRNPAITMNFRAVYISQFQPSSTQFSLMGFANKF 197
 QY 181 RIHFTPEPQNNPRLIRPIQOLLGRTATATGKRVYELPITNGAKRNKILFL 240
 DB 198 QTHFTPEPRTSNPLSLVHQLQFTYATAIQNVHRLFPASVAGARDKILIV 257
 QY 241 TDGKFGDPAGYEDVIELDREGVIRYVIGVDAFRSEKSGROELNTVASKRPDRHFOIN 300
 DB 258 TDGKFGDSDLDYKDVIMADAGIRAIQVGLAFQNRNWKELNDLASKPSQCHIRKVE 317
 QY 301 NFEALKTIONQREKIFAIQGTQSSSFHEHMSQGFSAATTSNGLLSTVGSYDMAG 360
 DB 318 DFLALQIQOLKEKIKAIQGTETSSSFELEMAQGFSAVFTPDGVLGAVGQVFTWSG 377
 QY 361 GVFLYTSKEKSTFINMTRVSDMDALVGLAAAILLNKQSVLGLAPRYOHIGLVAMER 420
 DB 378 GAFLYPNNMSPFTFNMQENVDMDSYGLSTELAMKGVQSVLGLAPRYOHIGKAVIFT 437
 QY 421 QNTGMMESNNVKGTOIGAFVGSGLGVDVDSNGSTLVILIGAPHYEOTRGGOVSVCPL 480
 DB 438 QVSRQRMKAEVGTQIGSTFGASLGVDDTDGSDTLVILIGAPHYEOTRGGOVSVCPL 497
 QY 481 PRGQARAWQDAVLVYGGQGPWGRFGAALTVLGVDNGDKLTVAILGAPGEEDNRGAVYLE 540
 DB 498 PRGWR-RWMCDAVLVYGGQGPWGRFGAALTVLGVDNGDKLTVAILGAPGEEDNRGAVYLE 556
 QY 541 HGTSGSSISPSHGRILNGSLSPLOVFGQSLSGGDLTMDGLVDTLVGAGQHYLLRSQ 600
 DB 557 HGVLPSPISPSHGRILNGSLSPLOVFGQSLSGGDLTMDGLVDTLVGAGQHYLLRSQ 616
 QY 601 PVLKVAIMEFNEPREVARNVECDQVVKKEAGEVAVLCVHVKQSTRDRAREQIOGSVVT 660
 DB 617 PVLKVGSMQPIRAEIRSAFECHEQVVSSECTLVQSNICLIYDKRSKNLIGSRDLSQSVT 676
 QY 661 YDLALDSGRHSAVAFNEITNSRRQTOVLGLTQTCETLKLQFNCTEDVSPVILRLNF 720
 DB 677 YDLALDSGRHSAVAFNEITNSRRQTOVLGLTQTCETLKLQFNCTEDVSPVILRLNF 736
 QY 721 SLVGTPLSAAGNLPVLAEDQRLFTALFPEKNGCNDNICODDLSTFSFMSLDCILVIG 780

DB 737 TLVCKPLAFRNIRPMALAAQRYFTASLPFEKNCADHI CODNLGISFPGLKSLVNG 796
 QY 781 GPREFVTVTVRNGDSDSYRTQVTFEFPPLDLSYKYSTLQNRQSRWRLACESASTEV 840
 DB 797 SNELNAEVMVWMDGSDSYRTQVTFEFPPLDLSYKYSTLQNRQSRWRLACESASTEV 854
 QY 841 SGALKSTSCSINHPIFENSEVTENITFPVDSKASLGKLLKANTVSENNPRINKTEF 900
 DB 855 SQGTWSTSCRINHPIFENSEVTENITFPVDSKASLGKLLKANTVSENNPRINKTEF 914
 QY 901 QLELPKVAIVVWVTSHTGVTXYLNFTAS-ENTSRVMQHOYQVSNLQORSPLSTVFLVP 959
 DB 915 QLELPKVAIVVWVTSHTGVTXYLNFTAS-ENTSRVMQHOYQVSNLQORSPLSTVFLVP 974
 QY 960 VRLNQTVIMDRPQVTESENLSSTYKTERLPSSHDFLAELKRAPVNCISAVCORIQCDI 1019
 DB 975 VELNQAQVMDVESHQNPULSRCSSEKIAAPASDLAHIQNRPVLDGSIAGLRRCOV 1034
 QY 1020 PFFGIOEFNNATLKNLSFDWYIKTSHNHLIVSTAEILFNDSVFTLLPQGAQVRSQTE 1079
 DB 1035 PPSVQVEELDFTLKGNLSFGWROQLQKKVSVSVVAEITFDTSVYSQLPGQEAQFRAQTT 1094
 QY 1080 TKRPEPEVNPPLIVGSSVGLLLALITLALYKGFPRQYKDMSE 1128
 DB 1095 TLEKRYKHNPPPLIVGSSIGLLALITLALYKGFPRQYKDMSE 1143

RESULT 14
 PCT-US96-01314-44
 Sequence 44, Application PC/TUS9601314
 GENERAL INFORMATION:
 APPLICANT: M. Amin Arnaout
 TITLE OF INVENTION: METHODS FOR IDENTIFYING INTEGRIN
 TITLE OF INVENTION: ANTAGONISTS
 NUMBER OF SEQUENCES: 78
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Fish & Richardson P.C.
 STREET: 225 Franklin Street
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: U.S.A.
 ZIP: 02110-2804
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.5" Diskette, 1.44 MB
 COMPUTER: IBM PS/2 Model 502 or 555X
 OPERATING SYSTEM: MS-DOS (Version 5.0)
 SOFTWARE: Wordperfect (Version 5.1)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US96/01314
 FILING DATE: 30-JAN-96
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/380,167
 FILING DATE: 30-JAN-95
 ATTORNEY/AGENT INFORMATION:
 NAME: John W. Freeman
 REGISTRATION NUMBER: 29,066
 REFERENCE/DOCKET NUMBER: 00786/267001
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 542-5070
 TELEFAX: (617) 542-8906
 TELEX: 200154
 INFORMATION FOR SEQ ID NO: 44:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1163
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: linear
 PCT-US96-01314-44

Query Match 58.8%; Score 3459; DB 5; Length 1163;
 Best Local Similarity 60.9%; Pred. No. 9,5e-290;
 Matches 687; Conservative 142; Mismatches 294; Indels 6; Gaps 4;

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Qy 1 FNLDIENAMTPOENANRFGOSVVOLOGSRVVGAPOEIYAANORGLXOCDSYSGCEPI 60
Db 20 FNLDIETELAFRVDASGFGDSVVOYANSMWVGAPOKITAANOITGGLXOCGYSIGACEPI 79
Qy 61 RIQVPEAVNMSIGLSLAATTSPPOLLACPTVHQCSENTYKGLCFPGSNLRQOPK 120
Db 80 GLOVPEAVNMSIGLSLAATTSPPOLLACPTVHQCSENTYKGLCFPGSNLRQOPK 137
Qy 121 FPEALRGCEQEDSDIAFLIDSGSII PHDRMKKEWSTVMEQLKXSKTLFSIMOYSEEP 180
Db 138 LVPVROCEPROEDIVFLIDSGSISRNPFATMNFVRAVISOFORPSTOFSIMOYSEEP 197
Qy 181 RIHFTKEFONNPNRSLIKPITOLLGRHTATGRLKRVRELNTINGARKAKAFKILFLL 240
Db 198 QHFTFEERFRRTNPSILASVHQLGFTYTAIONVVRHLFHASYGARRDKILYI 257
Qy 241 TDGEKFGDPLGYEDVPELDREGVIRYVIGVDAPFSEKSRQELNTVASKPPRDVFOIN 300
Db 258 TDGKEGDSLDYKDVIPMDAAGIIRYALGVGLAFONRSMKELNDIASKPSOEHI FKVE 317
Qy 301 NEFALATIONOLEKIPALIEGTOTGSSSFEHEMSOEGFSAATISNGPLISTVGYDMAG 360
Db 318 DFDALDIONOLEKIPALIEGTOTGSSSFEHEMSOEGFSAATISNGPLISTVGYDMAG 377
Qy 361 GVELYTSKEKSTFINMTNRVDSMDMDAYLGYAAIILNRVQSLVGLAPRYOHTGLVAMFR 420
Db 378 GALLYPPNMSPTINNQEAVNRDSDLSGLSTELALMKQSLVGLAPRYOHTGLVAMFR 437
Qy 421 QNTGWESNANVKGTOIGAYFGASLGSVDVDSNGSTDVLIGAPHYEQTRGGQVSCPL 480
Db 438 QVSRQRMKAEVLTQIGSYFGASLGSVDVDSNGSTDVLIGAPHYEQTRGGQVSCPL 497
Qy 481 PRGORARWODAYLXEGGQPMGRFGALTVLDVNDKLTVDALGAREGENDRGAVYLF 540
Db 498 PRGWR-RWMCDAVALYXGQHPWGRFGALTVLDVNDKLTVDALGAREGENDRGAVYLF 556
Qy 541 HGTSGSGISPSHQRLAGSLSPRLQYFGOSLGGODLTMDGLVNDLVGACQGVYLLRSQ 600
Db 557 HGVLPBISPSHQRLAGSLSPRLQYFGOSLGGODLTMDGLVNDLVGACQGVYLLRSQ 616
Qy 601 PVLRYKAIMFNPREVARNVPECNDQVYKKEAGEVRLCHVOKSTRDLREGOIQSVT 660
Db 617 PVLWGVSMQFIPALIPRSAFECEQVASEQTLVQSNICLYIKRSKMLGSRDLQSVT 676
Qy 661 YDLALDSGRHSAVNETKSTRQOVLGLQTCETLKLQPNCEDEDVSPVRLNF 720
Db 677 LDIALDPGRISPATFOETKRSLSRVRLGLKACENFNILLPSCVEDSVTPPTLRNF 736
Qy 721 SLVGTPLSAFAGNLRPVLAEDAQRLLFTALPPEKNCQNDNICODDLSTFSFMSLDCLVNG 780
Db 737 TLVQKPLAARNLKRLPMLAALAKRYFTASLPFEKNCQADHICQDNLGISFSFPGKSLVNG 796
Qy 781 GPREFNVTVRNDEDSYRTQVTFPPDLSTYRKVSTLQNSQSRWRLACESASSTEV 840
Db 797 SNEIENAEVWVMDGEDSYGTTITFSHPAGLSYRYVAEGQQLRSLHLTCSAPVGG-- 854
Qy 841 SGALKSGSCINHPENSEVNTITPDVSKASLGNKLLKXANTSENNMPINTTEF 900
Db 855 SGGWSTSCRIINHLIFPGQAQITFLATFDVSPKAVLDRLLLTANVSENNTPTSTKTF 914
Qy 901 QLELPVYKAYVWVTSHGVSFTKYLNTFAS-ENTSRVMOHQOVSNLQORSPLISVLVLP 959
Db 915 QLELPVYKAYVWVTSHGVSFTKYLNTFAS-ENTSRVMOHQOVSNLQORSPLISVLVLP 974
Qy 960 VRLNQTVIMDRPOVTFSENLSSTCHTERLPSHSDPLAELKRAVNCSTIAVQORICDDI 1019
Db 975 VELNQVAVMMDVEVSHPONSPILRCSSEKIAVPASDFLAHQKPNVLDLCSLAGCLRFRCDV 1034
Qy 1020 PEFIOSEFNATLTKGNSLSPDYITKSHNHLIYSTAELTFDSYFTLLPGQAVRROTE 1079
Db 1035 PEFIOSEFNATLTKGNSLSPDYITKSHNHLIYSTAELTFDSYFTLLPGQAVRROTE 1094
Qy 1080 TKVEPPEVNPPLPLIVGSSVGLLLALITVALYKLGFFKQYKDMSE 1128

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Db 1095 TVLEKYKXNPNPLIVGSSIGLILLALITVALYKLGFFKQYKEMMEB 1143.

RESULT 15
US-08-173-497-4
; Sequence 4, Application US/08173497
; Patent No. 5437958
; GENERAL INFORMATION:
; APPLICANT: Gallatin, W. Michael
; APPLICANT: Van Der Vieren, Monica
; TITLE OF INVENTION: No. 5437958el Human 2 Integrin Alpha
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESS: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 233 S. Wacker Drive, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/173,497
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5437958and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 27866/31363
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEFAX: 312-474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1163 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-173-497-4

Query Match 58.4%; Score 3436; DB 1; length 1163;
Best Local Similarity 60.6%; Pred. No. 9,3e-288;
Matches 684; Conservative 148; Mismatches 291; Indels 6; Gaps 4;

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Qy 61 RIQVPEAVNMSIGLSLAATTSPPOLLACPTVHQCSENTYKGLCFPGSNLRQOPK 120
Db 80 GLOVPEAVNMSIGLSLAATTSPPOLLACPTVHQCSENTYKGLCFPGSNLRQOPK 137
Qy 121 FPEALRGCEQEDSDIAFLIDSGSII PHDRMKKEWSTVMEQLKXSKTLFSIMOYSEEP 180
Db 138 LVPVROCEPROEDIVFLIDSGSISRNPFATMNFVRAVISOFORPSTOFSIMOYSEEP 197
Qy 181 RIHFTKEFONNPNRSLIKPITOLLGRHTATGRLKRVRELNTINGARKAKAFKILFLL 240
Db 198 QHFTFEERFRRTNPSILASVHQLGFTYTAIONVVRHLFHASYGARRDKILYI 257
Qy 241 TDGEKFGDPLGYEDVPELDREGVIRYVIGVDAPFSEKSRQELNTVASKPPRDVFOIN 300
Db 258 TDGKEGDSLDYKDVIPMDAAGIIRYALGVGLAFONRSMKELNDIASKPSOEHI FKVE 317
Qy 301 NEFALATIONOLEKIPALIEGTOTGSSSFEHEMSOEGFSAATISNGPLISTVGYDMAG 360

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Db 318 DFDALDIONQLEKIPAEIGTETISSSFELEMAOEGFSAVFTPDGPIGAVGSFTWGS 377
Qy 361 GFELYSKESTFINTMTRVSDMDNDAYLGYAAIILNRYOSLVIGAPRYOHIGLVAMFR 420
Db 378 GATLPPNMSPTFINMSQENVDMRDSYLGISTELAMKGVOSLVIGAPRYOHIGKAVIFI 437
Qy 421 QNTGMESNANVKTQIGAYFGASLCSVDVDSNGSTDVLIGAPHYYEQTRGGQVSVCP 480
Db 438 QVSRQWMMKAEVIGTQIGSYFGASLCSVDVDTGSTDVLIGAPHYYEQTRGGQVSVCP 497
Qy 481 PRGQARWOCDAVLYXGQGPWGRFGAALTVDVNDKLTVAIGAPGEDNRGANVLF 540
Db 498 PRGMR-RMWCDALVYGQGPWGRFGAALTVDVNDKLTVAIGAPGEDNRGANVLF 556
Qy 541 HGTSGSGISPSHSQRIAGSKLSPRLQYFGOSLSCGQDPTMDGLVDLVGAQGHVLLRSQ 600
Db 557 HGVLGPEISPSHSQRIAGSKLSPRLQYFGOSLSCGQDPTMDGLVDLVGAQGHVLLRSQ 616
Qy 601 PVLRYKAIMFNPREVARNVFECDQYVKGKEGEVRVCLHVOKSTRDLREGOIOSVT 660
Db 617 PVLWVGVMQFIPAEIPRSAPFECREGEVSEQTLVQSNICLYIDKRSKLLGSRDLQSSVT 676
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Db 677 LDIALAPGRISPRAIPQETKRSLSRVVGLKAHCENFNLPLPSCVEDSVIPTILRLNF 736
Qy 721 SLVGTPLSAFAGNLPRVLAEDQRLFTALPPEKNCGNINICODDLSTFSFMSLDCLVG 780
Db 737 TLVQKPLAIFRNLPMLAALAQRYFTASLPFEKNCGADHICQDNLGSPFPLKSLVVG 796
Qy 781 GPREPNVTVTRNDGEDSYRTQVTFPPDLSTYRKVSTLQNRQSRWRLACESASSTEV 840
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Db 855 SGTWSTSCRIINHPIFEGQAQITFLATFDVSPRAVGLDRLLLIANVSSENNIPTSTKTI 914
Qy 901 QLELPVYAVYVMTSHGVSTKYLNFTAS-ENTSRVMOHOVOVSNLQORSPLISLVFLVP 959
Db 915 QLELPVYAVYVMTSHGVSTKYLNFTAS-ENTSRVMOHOVOVSNLQORSPLISLVFLVP 974
Qy 960 VRLNQVIWDRPOVTESENTSTCHTKERLPSHSDFLAELRKAPVNCSTAVCORIQCDI 1019
Db 975 VELNOEAVWMDVEVSHPNQNSLRCSSSEKIAIPASDFLAHIQKNPVLDCSIAGCLRFRCDV 1034
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Db 1035 PPSVVOEELDFTLKGNLSPGMVROILOKKVSVSVAEIIPDTSVYSOLPGOEAMFRAQTI 1094
Qy 1080 TKVEPFEPVNPPLPLIVGSSVGGVGLLLALITAAVYKLGFFKROYKDMMS 1128
Db 1095 TVEKYVNHPIPLIVGSSVGGVGLLLALITAAVYKLGFFKROYKDMMS 1143

Search completed: May 4, 2003, 13:39:19
Job time: 21.3333 secs

GenCore version 5.1.4 p5 4578
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OM protein - protein search, using sw model

Run on: May 4, 2003, 13:31:59 ; Search time 17.3333 Seconds
(without alignments)
1930.031 Million cell updates/sec

Title: US-09-902-481b-5

Perfect score: 5876

Sequence: 1 FNLDTENAMTFQENARGFGQ.....FKRQYKDMWSEGGPPGAEFQ 1137

Scoring table:

BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

1 number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: Issued Patents, AA:

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2: /cgn2_6/prodata/1/1aa/5B_COMB.pep:*
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5: /cgn2_6/prodata/1/1aa/PCTUS_COMB.pep:*
6: /cgn2_6/prodata/1/1aa/Backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	5862	99.8	1153	1 US-08-173-497-3	Sequence 3, Appli
2	5862	99.8	1153	1 US-08-286-889-3	Sequence 3, Appli
3	5862	99.8	1153	1 US-08-485-618-3	Sequence 3, Appli
4	5862	99.8	1153	1 US-08-362-652-3	Sequence 3, Appli
5	5862	99.8	1153	2 US-08-605-672-3	Sequence 3, Appli
6	5862	99.8	1153	2 US-08-482-293A-3	Sequence 3, Appli
7	5862	99.8	1153	2 US-08-943-363-3	Sequence 3, Appli
8	5862	99.8	1153	4 US-09-193-043-3	Sequence 3, Appli
9	5862	99.8	1153	4 US-09-688-307A-3	Sequence 3, Appli
10	5831.5	99.2	1152	4 US-08-476-062A-43	Sequence 3, Appli
11	5831.5	99.2	1152	6 PCT-US96-01314-43	Sequence 43, Appli
12	5831.5	99.2	1152	6 5424399-2	Patent No. 5424399
13	3469	59.0	1163	2 US-08-476-062A-44	Sequence 44, Appli
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15	3446	58.6	1163	1 US-08-173-497-4	Sequence 4, Appli
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17	3446	58.6	1163	1 US-08-485-618-4	Sequence 4, Appli
18	3446	58.6	1163	1 US-08-362-652-4	Sequence 4, Appli
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20	3446	58.6	1163	2 US-08-482-293A-4	Sequence 4, Appli
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23	3446	58.6	1163	4 US-09-688-307A-4	Sequence 4, Appli
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26	3411	58.0	1161	1 US-08-485-618-2	Sequence 2, Appli
27	3411	58.0	1161	1 US-08-362-652-2	Sequence 2, Appli

28	3411	58.0	1161	2 US-08-605-672-2	Sequence 2, Appli
29	3411	58.0	1161	2 US-08-482-293A-2	Sequence 2, Appli
30	3411	58.0	1161	2 US-08-943-363-2	Sequence 2, Appli
31	3411	58.0	1161	4 US-09-193-043-2	Sequence 2, Appli
32	3411	58.0	1161	4 US-09-688-307A-2	Sequence 2, Appli
33	3395.5	57.8	1161	1 US-08-485-618-99	Sequence 99, Appli
34	3395.5	57.8	1161	2 US-08-605-672-99	Sequence 99, Appli
35	3395.5	57.8	1161	2 US-08-482-293A-99	Sequence 99, Appli
36	3395.5	57.8	1161	2 US-08-943-363-99	Sequence 99, Appli
37	3395.5	57.8	1161	4 US-09-193-043-99	Sequence 99, Appli
38	3395.5	57.8	1161	4 US-09-688-307A-99	Sequence 99, Appli
39	3323.5	55.0	1161	4 US-09-193-043-55	Sequence 55, Appli
40	3323.5	55.0	1161	4 US-09-688-307A-55	Sequence 55, Appli
41	3225.5	54.9	1161	1 US-08-485-618-55	Sequence 55, Appli
42	3225.5	54.9	1161	1 US-08-362-652-55	Sequence 55, Appli
43	3225.5	54.9	1161	2 US-08-605-672-55	Sequence 55, Appli
44	3225.5	54.9	1161	2 US-08-482-293A-55	Sequence 55, Appli
45	3225.5	54.9	1161	2 US-08-943-363-55	Sequence 55, Appli

ALIGNMENTS

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RESULT 1
US-08-173-497-3
; Sequence 3, Application US/08173497
; Patent No. 5437958
; GENERAL INFORMATION:
; APPLICANT: Gallatin, W. Michael
; APPLICANT: Van Der Vlieten, Monica
; TITLE OF INVENTION: No. 5437958e1 Human 2 Integrin Alpha
; TITLE OF INVENTION: Subunit
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Marshall, O'Toole, Gerstein, Murray & Bornum
; STREET: 233 S. Wacker Drive, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/173,497
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5437958and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 27866/31363
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEFAX: 312-474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO. 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1153 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-173-497-3
; Query Match 99.8%; Score 5862; DB 1; length 1153;
; Best Local Similarity 99.3%; Pred. No. 0;
; Matches 1129; Conservative 7; Mismatches 1; Indels 0; Gaps 0;
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QY 1 FNLDTENAMTFQENARGFGQSVVLOGSRVVVGAPQEIIVANQKSLVQCDYSTSCSCEPI 60
DB 17 FNLDTENAMTFQENARGFGQSVVLOGSRVVVGAPQEIIVANQKSLVQCDYSTSCSCEPI 76

QY 61 RLQVPEAVNMSIGLSLAATTSPPOLLACGPTVHQTCSSENTYVKGCLFEGSNLRQOPQK 120
 DB 77 RLQVPEAVNMSIGLSLAATTSPPOLLACGPTVHQTCSSENTYVKGCLFEGSNLRQOPQK 136
 QY 121 FPEALRGCPQEDSDIAFLVDGSSIIIPHDPRAKEFISTWEDLKKSKTFLSLMOYSEEF 180
 DB 137 FPEALRGCPQEDSDIAFLVDGSSIIIPHDPRAKEFISTWEDLKKSKTFLSLMOYSEEF 196
 QY 181 RIHFTKEFQNNPNRSLIKPIITOLLGRTHTATGIRKVVRELFINITNGARKNAFKILILI 240
 DB 197 RIHFTKEFQNNPNRSLIKPIITOLLGRTHTATGIRKVVRELFINITNGARKNAFKILIVI 256
 QY 241 TDGEKFGDPLGIEDVPEADREGVIRYVIGVDAFSEKSRQELNTVASKPRPDHVFQIN 300
 DB 257 TDGEKFGDPLGIEDVPEADREGVIRYVIGVDAFSEKSRQELNTVASKPRPDHVFQIN 316
 QY 301 NFEALKTIONLREKIPALIEGTOTGSSSSFEHMSQEGFSAATTSNGPLISTVGSYDMAG 360
 DB 317 NFEALKTIONLREKIPALIEGTOTGSSSSFEHMSQEGFSAATTSNGPLISTVGSYDMAG 376
 QY 361 GVELYTSKEKSTFINMTRVDSDMNDAYLGYAAAIILRNRVOSLVLAGAPRYOHIGLVAMER 420
 DB 377 GVELYTSKEKSTFINMTRVDSDMNDAYLGYAAAIILRNRVOSLVLAGAPRYOHIGLVAMER 436
 QY 421 QNTGMESNANVKGITIGAYFGASLCSVDNSGSTDVLIGAPHYEQTRGGQVSVCP 480
 DB 437 QNTGMESNANVKGITIGAYFGASLCSVDNSGSTDVLIGAPHYEQTRGGQVSVCP 496
 QY 481 PPGORARMOCDAVLGEQOGPMGRFGAALTIVLGDVNGDKLTIVATGABEEDNRGVYLF 540
 DB 497 PPGORARMOCDAVLGEQOGPMGRFGAALTIVLGDVNGDKLTIVATGABEEDNRGVYLF 556
 QY 541 HGTSGSGISPSHSQRIASGKLSPRLOYPGQSLSGGQDLTMDGLVLDLTVGAQGHVLLRSG 600
 DB 557 HGTSGSGISPSHSQRIASGKLSPRLOYPGQSLSGGQDLTMDGLVLDLTVGAQGHVLLRSG 616
 QY 601 PVLRYKALIEFNPREVAVARVFECDNOVVKGEAGEVRCVLAVOKSTRDLRREGQIQSVVT 660
 DB 617 PVLRYKALIEFNPREVAVARVFECDNOVVKGEAGEVRCVLAVOKSTRDLRREGQIQSVVT 676
 QY 661 YLALDSDGRPHRAVENENKSTRROTUGLTOCETLKLQPCNTEBPVPIVRLNLF 720
 DB 677 YLALDSDGRPHRAVENENKSTRROTUGLTOCETLKLQPCNTEBPVPIVRLNLF 736
 QY 721 SLVGTPLSAFQNLRYLAEDAQLFTALPPEKNCNGNDNICDDLSITSPFMSLDCLVVG 780
 DB 737 SLVGTPLSAFQNLRYLAEDAQLFTALPPEKNCNGNDNICDDLSITSPFMSLDCLVVG 796
 QY 781 GREENVVTVVNDGEDSYRTQVTEFFPLDLSYRKVSTLQONRSQSWRLACESASTEV 840
 DB 797 GREENVVTVVNDGEDSYRTQVTEFFPLDLSYRKVSTLQONRSQSWRLACESASTEV 856
 QY 841 SGALSTSGSINHPIFPENSEVTFNITFDVDSKASIGNLLKAVNTSSNNMPTNKTEF 900
 DB 857 SGALSTSGSINHPIFPENSEVTFNITFDVDSKASIGNLLKAVNTSSNNMPTNKTEF 916
 QY 901 QLELPVKYAVVWVYVSHGVSTKYLNFTASENTSRVMOHOYOVNSLQORSLPISLVFLVAV 960
 DB 917 QLELPVKYAVVWVYVSHGVSTKYLNFTASENTSRVMOHOYOVNSLQORSLPISLVFLVAV 976
 QY 961 RLNQTVIMDRPOVTSSENISTCTCHTERLPSHSDFLAELIRKAPVNVCSIAVCORIQCDIP 1020
 DB 977 RLNQTVIMDRPOVTSSENISTCTCHTERLPSHSDFLAELIRKAPVNVCSIAVCORIQCDIP 1036
 QY 1021 FPGIOEBFNATLKGULSPWYIKTSHNHLIYSTAEIIPNDVFTLLPQOGAFVVSQET 1080
 DB 1037 FPGIOEBFNATLKGULSPWYIKTSHNHLIYSTAEIIPNDVFTLLPQOGAFVVSQET 1096
 QY 1081 KYEPPEVNPPLIIVGSSVGGILLALITLALYKLGFFKROYKQMMSEGGPGAGAPQ 1137
 DB 1097 KYEPPEVNPPLIIVGSSVGGILLALITLALYKLGFFKROYKQMMSEGGPGAGAPQ 1153

RESULT 2
 US-08-286-889-3
 ; Sequence 3, Application US/08286889
 ; Patent No. 5470953
 ; GENERAL INFORMATION:
 ; APPLICANT: Gallatin, W. Mich
 ; APPLICANT: Van der Vieren, Monica
 ; TITLE OF INVENTION: No. 5470953el Human 2 Integrin Alpha Subunit
 ; NUMBER OF SEQUENCES: 51
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESS: Marshall, O'Toole, Gerstein, Murray & Borun
 ; STREET: 233 South Wacker Drive, 6300 Sear Tower
 ; CITY: Chicago
 ; STATE: Illinois
 ; COUNTRY: United States
 ; ZIP: 60606-6402
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patentin Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/286,889
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/173,497
 ; FILING DATE: 23-DEC-1993
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Williams Jr., Joseph A.
 ; REGISTRATION NUMBER: P38,659
 ; REFERENCE/DOCKET NUMBER: 27866/32168
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 312-474-6300
 ; TELEFAX: 312-474-0448
 ; TELEX: 25-3856
 ; INFORMATION FOR SEQ ID NO: 3:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1153 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-286-889-3
 Query Match 99.8%; Score 5862; DB 1; Length 1153;
 Best Local Similarity 99.3%; Pred. No. 0;
 Matches 1129; Conservative 7; Mismatches 1; Indels 0; Gaps 0;
 QY 1 FNLDENAMTFOENARGGQGVOLQSGRVVGAPOEIVANQSGSLYQCDYSTGSCPEI 60
 DB 17 FNLDENAMTFOENARGGQGVOLQSGRVVGAPOEIVANQSGSLYQCDYSTGSCPEI 76
 QY 61 RLQVPEAVNMSIGLSLAATTSPPOLLACGPTVHQTCSSENTYVKGCLFEGSNLRQOPQK 120
 DB 77 RLQVPEAVNMSIGLSLAATTSPPOLLACGPTVHQTCSSENTYVKGCLFEGSNLRQOPQK 136
 QY 121 FPEALRGCPQEDSDIAFLVDGSSIIIPHDPRAKEFISTWEDLKKSKTFLSLMOYSEEF 180
 DB 137 FPEALRGCPQEDSDIAFLVDGSSIIIPHDPRAKEFISTWEDLKKSKTFLSLMOYSEEF 196
 QY 181 RIHFTKEFQNNPNRSLIKPIITOLLGRTHTATGIRKVVRELFINITNGARKNAFKILILI 240
 DB 197 RIHFTKEFQNNPNRSLIKPIITOLLGRTHTATGIRKVVRELFINITNGARKNAFKILIVI 256
 QY 241 TDGEKFGDPLGIEDVPEADREGVIRYVIGVDAFSEKSRQELNTVASKPRPDHVFQIN 300
 DB 257 TDGEKFGDPLGIEDVPEADREGVIRYVIGVDAFSEKSRQELNTVASKPRPDHVFQIN 316
 QY 301 NFEALKTIONLREKIPALIEGTOTGSSSSFEHMSQEGFSAATTSNGPLISTVGSYDMAG 360
 DB 317 NFEALKTIONLREKIPALIEGTOTGSSSSFEHMSQEGFSAATTSNGPLISTVGSYDMAG 376

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QY 361 GVEFLYTSKEKSTFIMNTRVDSMDNDAYLGAAAILLRNRVOSLVGAPRYOHIGLVAMR 420
DB 377 GVEFLYTSKEKSTFIMNTRVDSMDNDAYLGAAAILLRNRVOSLVGAPRYOHIGLVAMR 436
QY 421 QNTGMESNANYKGTQIGAYFGASLCSVDVDSNGSTDVLVIGAPHYYEOTRGQVSVCP 480
DB 437 QNTGMESNANYKGTQIGAYFGASLCSVDVDSNGSTDVLVIGAPHYYEOTRGQVSVCP 496
QY 481 PRGORARWOCDAVLVEGOGQPMGRFGAALTVDVNGDKLTDVAICAPGEEDNRGAIVLF 540
DB 497 PRGORARWOCDAVLVEGOGQPMGRFGAALTVDVNGDKLTDVAICAPGEEDNRGAIVLF 556
QY 541 HGTSGSGISPSHSQRIAGSKLSPRLQYFGQSLSGGODLTMDGLVDTLVGAQGHVLLRSQ 600
DB 557 HGTSGSGISPSHSQRIAGSKLSPRLQYFGQSLSGGODLTMDGLVDTLVGAQGHVLLRSQ 616
QY 601 PYLRVKAIMEFNPREVARYAVFECNDQVVGKEAGEVRVCLHVQKSTRDLREGQIOSVVT 660
DB 617 PYLRVKAIMEFNPREVARYAVFECNDQVVGKEAGEVRVCLHVQKSTRDLREGQIOSVVT 676
QY 661 YDLALDSGRPHSRVAFNETKNSRROTQVGLTQTCETLKLQPNCTIEDPVSPVILRLNF 720
DB 677 YDLALDSGRPHSRVAFNETKNSRROTQVGLTQTCETLKLQPNCTIEDPVSPVILRLNF 736
QY 721 SLVGTPLSAFGNLRPYLAEDAQRFTALPPEFKNCGNDNICODDLSITFSFMSLDCLVVG 780
DB 737 SLVGTPLSAFGNLRPYLAEDAQRFTALPPEFKNCGNDNICODDLSITFSFMSLDCLVVG 796
QY 781 GPREENVYTVVRNDGEDSTRQVTFPPPLDLSTRKXSTLONORSQSRWLACESASTEV 840
DB 797 GPREENVYTVVRNDGEDSTRQVTFPPPLDLSTRKXSTLONORSQSRWLACESASTEV 856
QY 841 SGALKSTGCSINHPPEPSEVENTITPDVDSKASLGNKLLKANTSENMRPTKTEF 900
DB 857 SGALKSTGCSINHPPEPSEVENTITPDVDSKASLGNKLLKANTSENMRPTKTEF 916
QY 901 QLELPKXAVVWVVTSHGVSTKYLNTFASENTSRWQHQQVSNLQORSLPISLVLVYV 960
DB 917 QLELPKXAVVWVVTSHGVSTKYLNTFASENTSRWQHQQVSNLQORSLPISLVLVYV 976
QY 961 RLNQYIWMRPOVTFEENLSTCHTKERLPSHSDPLAELRKADVNCISIAVCRIQCDIP 1020
DB 977 RLNQYIWMRPOVTFEENLSTCHTKERLPSHSDPLAELRKADVNCISIAVCRIQCDIP 1036
QY 1021 FPGIOEFNATLKGNLSPDWYITKSHNHLIYSTAELFNDSVFTLLPGQGAIVRSQTEF 1080
DB 1037 FPGIOEFNATLKGNLSPDWYITKSHNHLIYSTAELFNDSVFTLLPGQGAIVRSQTEF 1096
QY 1081 KYEPFEVNPPLPLIVGSSVGGLLLALITAAKYLGFKQYKDMMSSEGGPQGAEPQ 1137
DB 1097 KYEPFEVNPPLPLIVGSSVGGLLLALITAAKYLGFKQYKDMMSSEGGPQGAEPQ 1153

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RESULT 3
US-08-485-618-3

Sequence 3, Application US/08485618
Patent No. 5728533

GENERAL INFORMATION:

APPLICANT: Gallatin, W. Michael

APPLICANT: Van der Vieren, Monica

TITLE OF INVENTION: No. 5728533el Human 2 Integrin Alpha Subunit

NUMBER OF SEQUENCES: 103

CORRESPONDENCE ADDRESS:

ADDRESSES: Marshall, O'Toole, Gerstein, Murray & Borzun

STREET: 233 South Wacker Drive, 6300 Seear Tower

CITY: Chicago

STATE: Illinois

COUNTRY: United States

ZIP: 60606-6402

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,618
FLING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/173,497
FLING DATE: 23-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/286,889
FLING DATE: 5-AUG-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/362,652
FLING DATE: 21-DEC-1994
ATTORNEY/AGENT INFORMATION:
NAME: Williams Jr., Joseph A.
REGISTRATION NUMBER: 38,659
REFERENCE/DOCKET NUMBER: 27866/32797
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
TELEFAX: 312-474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1153 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-485-618-3

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Query Match 99.8%; Score 5862; DB 1; Length 1153;

Best Local Similarity 99.3%; Pred. No. 0; Matches 1129; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

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QY 1 FNLDENMTFOENARGFQSGVVOLOQSRVYVGAPOEIVAAQNRSLYQCDVSTSCBPI 60
DB 17 FNLDENMTFOENARGFQSGVVOLOQSRVYVGAPOEIVAAQNRSLYQCDVSTSCBPI 76
QY 61 RLQVPEAVNNSLGSLAATTSPPOLACGPTVHOTGSENTYVKCLCFGSNLRQOPQK 120
DB 77 RLQVPEAVNNSLGSLAATTSPPOLACGPTVHOTGSENTYVKCLCFGSNLRQOPQK 136
QY 121 PPEALRGCPQEDSDIAFLVDGSGSIIIPDPRAKFISTWEOLEKSKTSLSMQSEF 180
DB 137 PPEALRGCPQEDSDIAFLVDGSGSIIIPDPRAKFISTWEOLEKSKTSLSMQSEF 196
QY 181 RIHFTFEKFONNPNRSLIKPITQLGRTHATGIRKVVRELFNTINGARKNAFKILILI 240
DB 197 RIHFTFEKFONNPNRSLIKPITQLGRTHATGIRKVVRELFNTINGARKNAFKILIVI 256
QY 241 TDGEKFGDPLGYEDVYIPADREGVIRYIYGVDARFSEKROELTVASKPRDHVFOIN 300
DB 257 TDGEKFGDPLGYEDVYIPADREGVIRYIYGVDARFSEKROELTVASKPRDHVFOIN 316
QY 301 NPEALKTIONOLREKIPALIEGTQSSSSFEHEMSEKESAAITNSGPLSTVGSYDMAG 360
DB 317 NPEALKTIONOLREKIPALIEGTQSSSSFEHEMSEKESAAITNSGPLSTVGSYDMAG 376
QY 361 GVEFLYTSKEKSTFIMNTRVDSMDNDAYLGAAAILLRNRVOSLVGAPRYOHIGLVAMR 420
DB 377 GVEFLYTSKEKSTFIMNTRVDSMDNDAYLGAAAILLRNRVOSLVGAPRYOHIGLVAMR 436
QY 421 QNTGMESNANYKGTQIGAYFGASLCSVDVDSNGSTDVLVIGAPHYYEOTRGQVSVCP 480
DB 437 QNTGMESNANYKGTQIGAYFGASLCSVDVDSNGSTDVLVIGAPHYYEOTRGQVSVCP 496
QY 481 PRGORARWOCDAVLVEGOGQPMGRFGAALTVDVNGDKLTDVAICAPGEEDNRGAIVLF 540
DB 497 PRGORARWOCDAVLVEGOGQPMGRFGAALTVDVNGDKLTDVAICAPGEEDNRGAIVLF 556
QY 541 HGTSGSGISPSHSQRIAGSKLSPRLQYFGQSLSGGODLTMDGLVDTLVGAQGHVLLRSQ 600

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DB 557 HGTSGSGISPSHQRASGLSRLQYFGOSLSGGODLTMDGVDLTVGAGHVLRLRSQ 616
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DB 617 PYLRVKAIMEFNPREVAVNFECNDQVVKKEAGEVAVCLHVQKSTRDRREGQIOSVVT 676
QY 661 YDLALDSGRPHSRAVFNETKSTRQTOVLGLTQTCETLKLQPNCTEDVPSIVLRNF 720
DB 677 YDLALDSGRPHSRAVFNETKSTRQTOVLGLTQTCETLKLQPNCTEDVPSIVLRNF 726
QY 721 SLVGTPLSAFGNLRPVLAEDAQRLLFTALFPFKKCGNDNICODDLSTFFSMISDCLVYG 780
DB 737 SLVGTPLSAFGNLRPVLAEDAQRLLFTALFPFKKCGNDNICODDLSTFFSMISDCLVYG 796
QY 781 GPREFNTVTVVRNDEGDSYRTQVTFPPPLDSYRKVSTLONORSORSMRLACESASTEV 840
DB 797 GPREFNTVTVVRNDEGDSYRTQVTFPPPLDSYRKVSTLONORSORSMRLACESASTEV 856
841 SGALKSTSCSINHPIPEENSEVTNITFDVDSKASLGNKLLKANYTSENNMERTKTEF 900
857 SGALKSTSCSINHPIPEENSEVTNITFDVDSKASLGNKLLKANYTSENNMERTKTEF 916
QY 901 QLELPVKYAVMYVTVSGVSTKYLNFASENTSRVMOHQVQSNLQORSPLISLVFLVPY 960
DB 917 QLELPVKYAVMYVTVSGVSTKYLNFASENTSRVMOHQVQSNLQORSPLISLVFLVPY 976
QY 961 RLNQVIMDRPOVTFSENLSSTCHTERLPSSHDPLAELRKAVNCSIAVCRICQDIP 1020
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DB 1037 FFGIOEFNATLKGNTLSPDWYIKTSHNHLIVSTAELLFNDVSFTLLPGGAFVRSQTEF 1096
QY 1081 KXEPFVNPPLPIVSSVGGILLALLITLALYKLGFPFKQYKQDMMSGGPPAPAEQ 1137
DB 1097 KXEPFVNPPLPIVSSVGGILLALLITLALYKLGFPFKQYKQDMMSGGPPAPAEQ 1153

RESULT 4
US-08-362-652-3
; Sequence 3, Application US/08362652
; Patent No. 5766850
; GENERAL INFORMATION:
; APPLICANT: Gallatin, W. Michael
; APPLICANT: Van der Vieren, Monica
; TITLE OF INVENTION: No. 5766850el Human 2 Integrin Alpha Subunit
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 233 South Wacker Drive, 6300 Sear Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/362,652
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/173,497
; FILING DATE: 23-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/286,889
; FILING DATE: 5-AUG-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams Jr., Joseph A.

```

```

; REGISTRATION NUMBER: 38,659
; REFERENCE/DOCKET NUMBER: 27866/32391
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEFAX: 312-474-0448
; TELEX: 25-3866
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1153 amino acids
; TYPE: amino acid
; STRANDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-362-652-3

Query Match 99.8% Score 5862; DB 1; Length 1153;
Beet Local Similarity 99.3% Pred. No. 0; Mismatches 1; Indels 0; Gaps 0;
Matches 1129; Conservative 7;

QY 1 FNLDTENAMTFOENARFGQSVVOLQGRVVGAPQEIYAANQSGSLYQCDYSTGSCBI 60
DB 17 FNLDTENAMTFOENARFGQSVVOLQGRVVGAPQEIYAANQSGSLYQCDYSTGSCBI 76
QY 61 RLQVPEAVNNSLGSLAATTSPPOLLAGPTVHOTCSENTYVKGLCTLFGSNLMOQPOK 120
DB 77 RLQVPEAVNNSLGSLAATTSPPOLLAGPTVHOTCSENTYVKGLCTLFGSNLMOQPOK 136
QY 121 FPEALRGCEQSDIAFLVDGSGSIIIPHPFRARKEFISTWELKKSTLPSLMQYSEEF 180
DB 137 FPEALRGCEQSDIAFLVDGSGSIIIPHPFRARKEFISTWELKKSTLPSLMQYSEEF 196
QY 181 RIHFTFEKQNNPNRSLIKPITOLLGRTHTATGIRKVRBELFNITNGARKNAFKILILI 240
DB 197 RIHFTFEKQNNPNRSLIKPITOLLGRTHTATGIRKVRBELFNITNGARKNAFKILIVI 256
QY 241 TDEGERDPLGIEDVTPPADREGVIRYITGVGDARSEKSRQELNTVASKPPRDHVFQIN 300
DB 257 TDEGERDPLGIEDVTPPADREGVIRYITGVGDARSEKSRQELNTVASKPPRDHVFQIN 316
QY 301 NFEALKTIONOLREKIPALIEGTQTSSSSFEHMSQEGFSAITNSGPLLSTVSGSYDAG 360
DB 317 NFEALKTIONOLREKIPALIEGTQTSSSSFEHMSQEGFSAITNSGPLLSTVSGSYDAG 376
QY 361 GVFLYTSKESKSTFINMTVDSQMDNAVLYGYAAAILLRNVOSLYVGAPRYOHIGLWAFR 420
DB 377 GVFLYTSKESKSTFINMTVDSQMDNAVLYGYAAAILLRNVOSLYVGAPRYOHIGLWAFR 436
QY 421 QNTGMBESNANYKGTQIGAYFGASLCSVDVDSNGSTDVLIGAPHYEQTRGGQVSVCP 480
DB 437 QNTGMBESNANYKGTQIGAYFGASLCSVDVDSNGSTDVLIGAPHYEQTRGGQVSVCP 496
QY 481 PRGQBARQOCDAVLVYGEQGPWGRFGAALTVLGDVNGDKLTDVALGAGEEDNRGAVALF 540
DB 497 PRGQBARQOCDAVLVYGEQGPWGRFGAALTVLGDVNGDKLTDVALGAGEEDNRGAVALF 556
QY 541 HGTSGSGISPSHQRASGLSRLQYFGOSLSGGODLTMDGLVDLTVGAGHVLRLRSQ 600
DB 557 HGTSGSGISPSHQRASGLSRLQYFGOSLSGGODLTMDGLVDLTVGAGHVLRLRSQ 616
QY 601 PYLRVKAIMEFNPREVAVNFECNDQVVKKEAGEVAVCLHVQKSTRDRREGQIOSVVT 660
DB 617 PYLRVKAIMEFNPREVAVNFECNDQVVKKEAGEVAVCLHVQKSTRDRREGQIOSVVT 676
QY 661 YDLALDSGRPHSRAVFNETKSTRQTOVLGLTQTCETLKLQPNCTEDVPSIVLRNF 720
DB 677 YDLALDSGRPHSRAVFNETKSTRQTOVLGLTQTCETLKLQPNCTEDVPSIVLRNF 736
QY 721 SLVGTPLSAFGNLRPVLAEDAQRLLFTALFPFKKCGNDNICODDLSTFFSMISDCLVYG 780
DB 737 SLVGTPLSAFGNLRPVLAEDAQRLLFTALFPFKKCGNDNICODDLSTFFSMISDCLVYG 796
QY 781 GPREFNTVTVVRNDEGDSYRTQVTFPPPLDSYRKVSTLONORSORSMRLACESASTEV 840

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Db 797 GREENVTVVANDGEDSRYTQVTFEFPDLDSYRKVSTLQONORSWELACESASSTEV 856
Qy 841 SGALSTSCSINHPIFENSEVTFTITFDVDSKASLGNKLLKAVTSENNPRTNKTFF 900
Db 857 SGALSTSCSINHPIFENSEVTFTITFDVDSKASLGNKLLKAVTSENNPRTNKTFF 916
Qy 901 QLELPEKVAVYVWVTSVSHGVSTKYLNFTASENSTRVMOHQYQVSNLQORSPLISLVLVAV 960
Db 917 QLELPEKVAVYVWVTSVSHGVSTKYLNFTASENSTRVMOHQYQVSNLQORSPLISLVLVAV 976
Qy 961 RINQTVIMDRPOVTFSENLSSTCHTKERLPSHSDFLAELRKAPVYVNCISAVQORIQCDIP 1020
Db 977 RINQTVIMDRPOVTFSENLSSTCHTKERLPSHSDFLAELRKAPVYVNCISAVQORIQCDIP 1036
Qy 1021 PFGIOEFNATLKGNSLSPMYIKTSHNHLIIVSTAEILFNDSVFTLLPGQAFVRSQTEI 1080
Db 1037 PFGIOEFNATLKGNSLSPMYIKTSHNHLIIVSTAEILFNDSVFTLLPGQAFVRSQTEI 1096
Qy 1081 KVEPEVNPPLIVGSSVGGLLLLALITPAIYKLGFPKRYKDMNSEGPGCAEPQ 1137
Db 1097 KVEPEVNPPLIVGSSVGGLLLLALITPAIYKLGFPKRYKDMNSEGPGCAEPQ 1153

RESULT 5

US-08-605-672-3
Sequence 3, Application US/08605672
Patent No. 5817515
GENERAL INFORMATION:
APPLICANT: Gallatin, W. Michael
APPLICANT: Van der Vieren, Monica
TITLE OF INVENTION: No. 5817515el Human 2 Integrin Alpha Subunit
NUMBER OF SEQUENCES: 103
CORRESPONDENCE ADDRESS:
ADDRESS: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 233 South Wacker Drive, 6300 Sear Tower
CITY: Chicago
STATE: Illinois
COUNTRY: United States
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/605,672
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/173,497
FILING DATE: 23-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/286,889
FILING DATE: 5-AUG-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/362,652
FILING DATE: 21-DEC-1994
ATTORNEY/AGENT INFORMATION:
NAME: Williams Jr., Joseph A.
REGISTRATION NUMBER: 38,659
REFERENCE/DOCKET NUMBER: 27866/32684
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
TELEFAX: 312-474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1153 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-605-672-3

Query Match 99.8%; Score 5862; DB 2; Length 1153;
Best Local Similarity 99.3%; Pred. No. 0;
Matches 1129; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ENLDTENAMTFOENARFGQSVYVQSGRVVVGAPQOEIVAAVNGSLYQCDYSTGSCERI 60
Db 17 FNLDTENAMTFOENARFGQSVYVQSGRVVVGAPQOEIVAAVNGSLYQCDYSTGSCERI 76
Qy 61 RLOVEVAVNMSLGLSLAATSPPOLACGPTVHOTGSENNYVKGCLPFGSNLQOQPK 120
Db 77 RLOVEVAVNMSLGLSLAATSPPOLACGPTVHOTGSENNYVKGCLPFGSNLQOQPK 136
Qy 121 PFEALRGCPQEDSDIAPLVDGSGSIIIPHDPRAKFISTVMEQLKXSTLSLMQSEEF 180
Db 137 PFEALRGCPQEDSDIAPLVDGSGSIIIPHDPRAKFISTVMEQLKXSTLSLMQSEEF 196
Qy 181 RIHFTPEKPNPNRSLIKPITQLGRTHTATGIRKRVRLFNITNGARKNAFKILILI 240
Db 197 RIHFTPEKPNPNRSLIKPITQLGRTHTATGIRKRVRLFNITNGARKNAFKILIVI 256
Qy 241 TDGEKFGDPLGVEDYIPADREGVIRYVIGDAPRSEKROELTVASKPRDHVPOIN 300
Db 257 TDGEKFGDPLGVEDYIPADREGVIRYVIGDAPRSEKROELTVASKPRDHVPOIN 316
Qy 301 NFEALKTIONOLREKIPIAIEGTQTSSESSFEHMSQEGFSAITNGPLSTVGSYDMAG 360
Db 317 NFEALKTIONOLREKIPIAIEGTQTSSESSFEHMSQEGFSAITNGPLSTVGSYDMAG 376
Qy 361 GVFLYTSKEKSTFINMTVRVDSMDNDAYLGYAAAILLRNVOSLVGAPRYOHIGLVAMFR 420
Db 377 GVFLYTSKEKSTFINMTVRVDSMDNDAYLGYAAAILLRNVOSLVGAPRYOHIGLVAMFR 436
Qy 421 ONTGMENANVKGQIQIAYFGASLCSVDVDSNGSTDVLVIGAPHYQOTRGQVSVCEPL 480
Db 437 ONTGMENANVKGQIQIAYFGASLCSVDVDSNGSTDVLVIGAPHYQOTRGQVSVCEPL 496
Qy 481 PRGQARNOCDVAVLYGEOQGPWGRFGAALTVYGVNCGDLTDVAIGAGEEDNRGAAYLIF 540
Db 497 PRGQARNOCDVAVLYGEOQGPWGRFGAALTVYGVNCGDLTDVAIGAGEEDNRGAAYLIF 556
Qy 541 HGTSGSGISPSHSORIASKSLSPRLQYFGQSLSGGQDLTMDGLVLTVGAQGHVILLRSQ 600
Db 557 HGTSGSGISPSHSORIASKSLSPRLQYFGQSLSGGQDLTMDGLVLTVGAQGHVILLRSQ 616
Qy 601 PVLARKALMEFPRVAVNVEPCNDQYVKGKAGGVRCVCLHVQKSTRRLRREGQIOSVVT 660
Db 617 PVLARKALMEFPRVAVNVEPCNDQYVKGKAGGVRCVCLHVQKSTRRLRREGQIOSVVT 676
Qy 661 YDLALDSGRPHRAVFNETKSTRQTOVLGLTOTCEITKLQLPNCIDBPVSPYILRLNF 720
Db 677 YDLALDSGRPHRAVFNETKSTRQTOVLGLTOTCEITKLQLPNCIDBPVSPYILRLNF 736
Qy 721 SLVGTPLSAFGNLRPVLAEDAQRLEFTALPPEKNGCNDNICODDLSTFSPFMSDCLVVG 780
Db 737 SLVGTPLSAFGNLRPVLAEDAQRLEFTALPPEKNGCNDNICODDLSTFSPFMSDCLVVG 796
Qy 781 GREENVTVVANDGEDSRYTQVTFEFPDLDSYRKVSTLQONORSRSLRACESASSTEV 840
Db 797 GREENVTVVANDGEDSRYTQVTFEFPDLDSYRKVSTLQONORSRSLRACESASSTEV 856
Qy 841 SGALSTSCSINHPIFENSEVTFTITFDVDSKASLGNKLLKAVTSENNPRTNKTFF 900
Db 857 SGALSTSCSINHPIFENSEVTFTITFDVDSKASLGNKLLKAVTSENNPRTNKTFF 916
Qy 901 QLELPEKVAVYVWVTSVSHGVSTKYLNFTASENSTRVMOHQYQVSNLQORSPLISLVLVAV 960
Db 917 QLELPEKVAVYVWVTSVSHGVSTKYLNFTASENSTRVMOHQYQVSNLQORSPLISLVLVAV 976
Qy 961 RINQTVIMDRPOVTFSENLSSTCHTKERLPSHSDFLAELRKAPVYVNCISAVQORIQCDIP 1020
Db 977 RINQTVIMDRPOVTFSENLSSTCHTKERLPSHSDFLAELRKAPVYVNCISAVQORIQCDIP 1036

QY 1021 FPGIOEFNATLKGNSLSDWYITKSHNHLIVSTAEILFNDVSFTLLPGQAFVRSQTE 1080
DB 1037 FPGIOEFNATLKGNSLSDWYITKSHNHLIVSTAEILFNDVSFTLLPGQAFVRSQTE 1096
QY 1081 KVEPFEVNPPLPIVSSVGGILLALITLALYKLGFEKQYKDMSEGGPGABEQ 1137
DB 1097 KVEPFEVNPPLPIVSSVGGILLALITLALYKLGFEKQYKDMSEGGPGABEQ 1153

RESULT 6
US-08-482-293A-3
Sequence 3, Application US/08482293A
Patent No. 5831029
GENERAL INFORMATION:
APPLICANT: Gallatin, W. Michael
TITLE OF INVENTION: No. 5831029el Human 2 Integrin Alpha Subunit
NUMBER OF SEQUENCES: 103
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 233 South Wacker Drive, 6300 Sear Tower
CITY: Chicago
STATE: Illinois
COUNTRY: United States
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/482,293A
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/173,497
FILING DATE: 23-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/286,889
FILING DATE: 5-AUG-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/362,652
FILING DATE: 21-DEC-1994
ATTORNEY/AGENT INFORMATION:
NAME: Williams Jr., Joseph A.
REGISTRATION NUMBER: 38,659
REFERENCE/DOCKET NUMBER: 27866/32684
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
TELEFAX: 312-474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1153 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-482-293A-3

Query Match 99.8%; Score 5862; DB 2; Length 1153;
Best Local Similarity 99.3%; Pred. No. 0;
Matches 1129; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 1 FNDTENANTFOENARGFGOSVVOQLGSRVVGAPQEIIVAANORGLYOCDSYSGCEPI 60
DB 17 FNDTENANTFOENARGFGOSVVOQLGSRVVGAPQEIIVAANORGLYOCDSYSGCEPI 76
QY 61 RLQVPEAVNMSLGLSLAATSPOLLACPTVHOTCSENTYKGLCFPGSNLRQOPK 120
DB 77 RLQVPEAVNMSLGLSLAATSPOLLACPTVHOTCSENTYKGLCFPGSNLRQOPK 136
QY 121 PFEALRGCPQEDSDIAFLVDGSGSII PHDPRAKEFISTVMEQLKSKXTLPSLMQYSEEF 180

DB 137 PFEALRGCPQEDSDIAFLVDGSGSII PHDPRAKEFISTVMEQLKSKXTLPSLMQYSEEF 196
QY 181 RIHFTPEKPNPNRSLIKPITOLLGRTHTATGIRKYVRELFINTINGARKAFAKILILI 240
DB 197 RIHFTPEKPNPNRSLIKPITOLLGRTHTATGIRKYVRELFINTINGARKAFAKILIVI 256
QY 241 TDGEKFGDPLGYEDVIPEADREGVIRYVIGVDAPRSEKSRQELNTVASKPRPDHVFQIN 300
DB 257 TDGEKFGDPLGYEDVIPEADREGVIRYVIGVDAPRSEKSRQELNTVASKPRPDHVFQIN 316
QY 301 NFEALKTIONQUREKIFAIEGTQTGSSSFEHEMSQEGFSAITNSGPLSTVGSYDMAG 360
DB 317 NFEALKTIONQUREKIFAIEGTQTGSSSFEHEMSQEGFSAITNSGPLSTVGSYDMAG 376
QY 361 GVELYTSKEKSTFIMNTRVDSMDNDAYGYAAIILRRVOSLVYGAPRYOHIGVAMFR 420
DB 377 GVELYTSKEKSTFIMNTRVDSMDNDAYGYAAIILRRVOSLVYGAPRYOHIGVAMFR 436
QY 421 QNTGMESNANYKGTQIGAYFGASLCSVDVDSNGSTDVLIGAPHYEQTROGQVSVPL 480
DB 437 QNTGMESNANYKGTQIGAYFGASLCSVDVDSNGSTDVLIGAPHYEQTROGQVSVPL 496
QY 481 PRGQARWOCDAVLYGEOQOPWGRFGAALTIVGDNQKLTVAIGARGEEDNRGAVYLF 540
DB 497 PRGQARWOCDAVLYGEOQOPWGRFGAALTIVGDNQKLTVAIGARGEEDNRGAVYLF 556
QY 541 HTSGSGISPSHSORIASKUSPRLQYFGOSLSGGODLTMCGLVLTGAQGHVLLLSQ 600
DB 557 HTSGSGISPSHSORIASKUSPRLQYFGOSLSGGODLTMCGLVLTGAQGHVLLLSQ 616
QY 601 PVLRYKAIMENPREVANVEPCNDQVYKKEAGEVRYCLHVOKSTRDLRREGQIOSVVT 660
DB 617 PVLRYKAIMENPREVANVEPCNDQVYKKEAGEVRYCLHVOKSTRDLRREGQIOSVVT 676
QY 661 YDLADSGRPHRAVFNETKXSTRQTOVLGTOCEFLKQLPNCIEDPVSPIYLRINF 720
DB 677 YDLADSGRPHRAVFNETKXSTRQTOVLGTOCEFLKQLPNCIEDPVSPIYLRINF 736
QY 721 SLVGTPLSAFGLRPVLBEDAORLFTALFPFEKNGGNINICODDISITFSFMSLCLVVG 780
DB 737 SLVGTPLSAFGLRPVLBEDAORLFTALFPFEKNGGNINICODDISITFSFMSLCLVVG 796
QY 781 GPREFNVTYVANDGEDSVRYQVTFPPLDLSYRKVSTLQONORSWRACESASSTEV 840
DB 797 GPREFNVTYVANDGEDSVRYQVTFPPLDLSYRKVSTLQONORSWRACESASSTEV 856
QY 841 SGALSTSCSINHPIFPENSEVTFTITFDVDSKASLGKLLIKANVTSENNMPRTNKTEF 900
DB 857 SGALSTSCSINHPIFPENSEVTFTITFDVDSKASLGKLLIKANVTSENNMPRTNKTEF 916
QY 901 QLELPVKAAYVWVTSHGAVSTKYLNFTASENTSRWMOHOYOVSNLGORSPLSLVFLPV 960
DB 917 QLELPVKAAYVWVTSHGAVSTKYLNFTASENTSRWMOHOYOVSNLGORSPLSLVFLPV 976
QY 961 RLNQTVINDRPQVTESENLSSTCHTKERLPSHSDFLAELRPAVNCISIAVQRIQCIP 1020
DB 977 RLNQTVINDRPQVTESENLSSTCHTKERLPSHSDFLAELRPAVNCISIAVQRIQCIP 1036
QY 1021 FPGIOEFNATLKGNSLSDWYITKSHNHLIVSTAEILFNDVSFTLLPGQAFVRSQTE 1080
DB 1037 FPGIOEFNATLKGNSLSDWYITKSHNHLIVSTAEILFNDVSFTLLPGQAFVRSQTE 1096
QY 1081 KVEPFEVNPPLPIVSSVGGILLALITLALYKLGFEKQYKDMSEGGPGABEQ 1137
DB 1097 KVEPFEVNPPLPIVSSVGGILLALITLALYKLGFEKQYKDMSEGGPGABEQ 1153

RESULT 7
US-08-943-363-3
Sequence 3, Application US/08943363
Patent No. 5837478
GENERAL INFORMATION:

```

APPLICANT: Gallatin, W. Michael
APPLICANT: Van der Vieren, Monica
TITLE OF INVENTION: No. 5837478el Human 2 Integrin Alpha Subunit
NUMBER OF SEQUENCES: 114
CORRESPONDENCE ADDRESS:
ADDRESS: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 233 South Wacker Drive, 6300 Sear Tower
CITY: Chicago
STATE: Illinois
COUNTRY: United States
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/943,363
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/173,497
FILING DATE: 23-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/286,889
FILING DATE: 5-AUG-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/362,652
FILING DATE: 21-DEC-1994
ATTORNEY/AGENT INFORMATION:
NAME: Williams Jr., Joseph A.
REGISTRATION NUMBER: 38,659
REFERENCE/DOCKET NUMBER: 27866/32684
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
TELEFAX: 312-474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1153 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-943-363-3
Query Match 99.8%; Score 5862; DB 2; Length 1153;
Best Local Similarity 99.3%; Pred. No. 0;
Matches 1129; Conservative 7; Mismatches 1; Indels 0; Gaps 0;
QY 1 FULDENANTPOENARFGQSVVQLOGSRVVGAPQEIYAANORGLYOCDSVSGCEPI 60
DB 17 FULDENANTPOENARFGQSVVQLOGSRVVGAPQEIYAANORGLYOCDSVSGCEPI 76
QY 61 RIQVPEAVNMISGLSLAATTSPPQLLAGPTVHQTCSENTYKGLCFGLSRLAQOPK 120
DB 77 RIQVPEAVNMISGLSLAATTSPPQLLAGPTVHQTCSENTYKGLCFGLSRLAQOPK 136
QY 121 PPALRGCCQOEDSDIAFLVDGSGSIIPHDPRRAKEPTSTVMEQLKSKTLFSIMQSEEF 180
DB 137 PPALRGCCQOEDSDIAFLVDGSGSIIPHDPRRAKEPTSTVMEQLKSKTLFSIMQSEEF 196
QY 181 RHFTFKERONNPNRSLKPTQLGRTHTAGIRKVVRELNTINGARKNAFKLLILI 240
DB 197 RHFTFKERONNPNRSLKPTQLGRTHTAGIRKVVRELNTINGARKNAFKLLILI 256
QY 241 TQGEKFGDPLGYEDVLPADREGVIRYVIGVDAPFRSEKSRQELANTVASKPPRDHYFOIN 300
DB 257 TQGEKFGDPLGYEDVLPADREGVIRYVIGVDAPFRSEKSRQELANTVASKPPRDHYFOIN 316
QY 301 NFPAKLTIONQLREKIPIAIEGTQTGSSSSFEHMSQEGFSAATISNGPLISTVGSYDMAG 360
DB 317 NFPAKLTIONQLREKIPIAIEGTQTGSSSSFEHMSQEGFSAATISNGPLISTVGSYDMAG 376

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QY 361 GVFLYTSKEKSTFIMMTREVDSDMDNDAYLYAAAILLRNRVOSLYGAPRYOHIGLVAMER 420
DB 377 GVFLYTSKEKSTFIMMTREVDSDMDNDAYLYAAAILLRNRVOSLYGAPRYOHIGLVAMER 436
QY 421 QNTGWESNANVKGTOIGAYFGASLCSYVDVDSNGSTDLVIGAPHYEOTRGQVSVCEPL 480
DB 437 QNTGWESNANVKGTOIGAYFGASLCSYVDVDSNGSTDLVIGAPHYEOTRGQVSVCEPL 496
QY 481 PRGORARQOCDAVLVYGEQGPWGRFGAALTVLGDVNGDKLTDVALGAGEEDNRGAVLYF 540
DB 497 PRGORARQOCDAVLVYGEQGPWGRFGAALTVLGDVNGDKLTDVALGAGEEDNRGAVLYF 556
QY 541 HGTSGSGISPSHSCRIAGSKLSPRLQYFGOSLSGGQDLMGDLVLTVAQGHVLLLSQ 600
DB 557 HGTSGSGISPSHSCRIAGSKLSPRLQYFGOSLSGGQDLMGDLVLTVAQGHVLLLSQ 616
QY 601 PVLRYKAIMENPREVARNVECDQVVKKEAGEVRYVCLHVQKSTRDLRREGQIQSVYT 660
DB 617 PVLRYKAIMENPREVARNVECDQVVKKEAGEVRYVCLHVQKSTRDLRREGQIQSVYT 676
QY 661 YDLALDSGRPHRAVFNETKSTRQTOVLGLTORCETLKLQPCIBDPVSPVLRINF 720
DB 677 YDLALDSGRPHRAVFNETKSTRQTOVLGLTORCETLKLQPCIBDPVSPVLRINF 736
QY 721 SLVGTPLSAFGLRPVLAEDAORLFTALFPFEKNGCNDNICODDISITFSFMSLDCLVYG 780
DB 737 SLVGTPLSAFGLRPVLAEDAORLFTALFPFEKNGCNDNICODDISITFSFMSLDCLVYG 796
QY 781 GREFNVTVTVNDEGDSRYQVTFEPPLDLSYRKVSTLQNRQSRWRLACESASTEV 840
DB 797 GREFNVTVTVNDEGDSRYQVTFEPPLDLSYRKVSTLQNRQSRWRLACESASTEV 856
QY 841 SGALSTGCSINHPIFPNSVTFNITFDVDSKASLGNLKLKAVTSENNPRNTKIEF 900
DB 857 SGALSTGCSINHPIFPNSVTFNITFDVDSKASLGNLKLKAVTSENNPRNTKIEF 916
QY 901 QLELPVKAIVVWVTSHGSTKYLNFTASENSTRVMOHQYVSNIGORSPLSTFLVAV 960
DB 917 QLELPVKAIVVWVTSHGSTKYLNFTASENSTRVMOHQYVSNIGORSPLSTFLVAV 976
QY 961 RLNQTVIMDRPQVTFSENLSSTCHTKERLPSHSDFLAELRKA PVVNCSTAVQRIQCDIP 1020
DB 977 RLNQTVIMDRPQVTFSENLSSTCHTKERLPSHSDFLAELRKA PVVNCSTAVQRIQCDIP 1036
QY 1021 FFGIOEERNAITKGNLSFPMYIKTSHNLLIVSTELLFNDVFTLLPQCGAFVRSQET 1080
DB 1037 FFGIOEERNAITKGNLSFPMYIKTSHNLLIVSTELLFNDVFTLLPQCGAFVRSQET 1096
QY 1081 KYEPFVNPPLPLIVGSSVGLLLALITLALITLALYKLGFFRQYKDMMSSEGPPGAEPQ 1137
DB 1097 KYEPFVNPPLPLIVGSSVGLLLALITLALITLALYKLGFFRQYKDMMSSEGPPGAEPQ 1153

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RESULT 8
US-09-193-043-3
; Sequence 3, Application US/09193043
; Patent No. 6251395
; GENERAL INFORMATION:
; APPLICANT: Gallatin, Michael W.
; APPLICANT: Van der Vieren, Monica
; TITLE OF INVENTION: No. 6251395el Human 2
; FILE REFERENCE: 27866/35004
; CURRENT APPLICATION NUMBER: US/09/193,043
; CURRENT FILING DATE: 1998-11-16
; EARLIER APPLICATION NUMBER: 08/173,497
; EARLIER FILING DATE: 1993-12-23
; EARLIER APPLICATION NUMBER: 08/286,889
; EARLIER FILING DATE: 1994-08-05
; EARLIER APPLICATION NUMBER: 08/362,652
; EARLIER FILING DATE: 1994-12-21
; EARLIER APPLICATION NUMBER: 08/943,363
; EARLIER FILING DATE: 1997-10-03

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; NUMBER OF SEQ ID NOS: 114
 ; SOFTWARE: Patentin Ver. 2.0
 ; SEQ ID NO 3
 ; LENGTH: 1153
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-193-043-3

Query Match 99.8%; Score 5862; DB 4; Length 1153;
 Best Local Similarity 99.3%; Pred. No. 0;
 Matches 1129; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 1 FNLDTENAMTFQENARFGQSVVVOLOGSRVVGAPQEIYVAAORGSLYOCDSYSGCEPI 60
 DB 17 FNLDTENAMTFQENARFGQSVVVOLOGSRVVGAPQEIYVAAORGSLYOCDSYSGCEPI 76
 QY 61 RLQVPEAVNMSLGLSLAATSPOLLACGPTVHQCSENTYVKGICFLFGSNLRQOPQK 120
 DB 77 RLQVPEAVNMSLGLSLAATSPOLLACGPTVHQCSENTYVKGICFLFGSNLRQOPQK 136
 QY 121 FPEALRGCPQEDSDIAFLVDGSGSIIIPHDFRAKEFIPTVMEQLKSKTLFSLMOYSEEF 180
 DB 137 FPEALRGCPQEDSDIAFLVDGSGSIIIPHDFRAKEFIPTVMEQLKSKTLFSLMOYSEEF 196
 QY 181 RHFTFKFQNNPNRSLIKPITQLGRTHTATGIRKVVRELFTNTNGARKNAFKILILI 240
 DB 197 RHFTFKFQNNPNRSLIKPITQLGRTHTATGIRKVVRELFTNTNGARKNAFKILILI 256
 QY 241 TDGEKFGDPLGYEDVIPEADREGVIRYIVGVDARFSEKSRQELNTVASKPRDHVFOIN 300
 DB 257 TDGEKFGDPLGYEDVIPEADREGVIRYIVGVDARFSEKSRQELNTVASKPRDHVFOIN 316
 QY 301 NFEALKTIONQUREKIPIAIEGTOTGSSSFEHMSQEGFSAITNSGPLSTVGSYDMAG 360
 DB 317 NFEALKTIONQUREKIPIAIEGTOTGSSSFEHMSQEGFSAITNSGPLSTVGSYDMAG 376
 QY 361 GVLPLYSKEKSTINMTRVDSQNDAYLGYAAIIIRNRVQSVLGAAPRYQITGLVAMER 420
 DB 377 GVLPLYSKEKSTINMTRVDSQNDAYLGYAAIIIRNRVQSVLGAAPRYQITGLVAMER 436
 QY 421 QNTGMESSNANVGTQIGAFGASLGSVDVDSNGSTDVLVIGAPHYEBOTRGQVAVCP 480
 DB 437 QNTGMESSNANVGTQIGAFGASLGSVDVDSNGSTDVLVIGAPHYEBOTRGQVAVCP 496
 QY 481 PRGQARAWQCDAYLYGEOGQPMWRFAGALTVLDVNGDKLTVAIGAPEGEDNRGAIVLYF 540
 DB 497 PRGQARAWQCDAYLYGEOGQPMWRFAGALTVLDVNGDKLTVAIGAPEGEDNRGAIVLYF 556
 QY 541 HGTSGSGISPSHSQRIAGSKSLRLOYFGQSLSGGODLTMDGLVDLTGVAQGHVLLRSG 600
 DB 557 HGTSGSGISPSHSQRIAGSKSLRLOYFGQSLSGGODLTMDGLVDLTGVAQGHVLLRSG 616
 QY 601 PVLRAVAIMEFNRVAVRANVECDQVVGKEAGEVRVCLHVKSTRDRRBEQIOISVVT 660
 DB 617 PVLRAVAIMEFNRVAVRANVECDQVVGKEAGEVRVCLHVKSTRDRRBEQIOISVVT 676
 QY 661 YDLALDSGPHSAVFNETKSTRTOYVGLTQTCETLKLQLPNCIEDPVSVIARLNF 720
 DB 677 YDLALDSGPHSAVFNETKSTRTOYVGLTQTCETLKLQLPNCIEDPVSVIARLNF 736
 QY 721 SLVGTLSLAFGNLRYVLAEDAQRLFTALPFEKNCNDNI CODDLSITFSFMSLDCLVVG 780
 DB 737 SLVGTLSLAFGNLRYVLAEDAQRLFTALPFEKNCNDNI CODDLSITFSFMSLDCLVVG 796
 QY 781 GPREFNVTYVRDGDSDRYTOVTFPPLDLSYRKVSTLONORSOSWRACASASTEV 840
 DB 797 GPREFNVTYVRDGDSDRYTOVTFPPLDLSYRKVSTLONORSOSWRACASASTEV 856
 QY 841 SGALKSTSGSINHPFIPENSEVFNITFDVDSKASLGNKLLKANTSENMMRTKTEF 900
 DB 857 SGALKSTSGSINHPFIPENSEVFNITFDVDSKASLGNKLLKANTSENMMRTKTEF 916
 QY 901 QLELPYKAVVYVVTSHGVSTKYLNFTASENTRVMOHOYQVSNLQORSLLPSLVLVVPV 960

DB 917 QLELPYKAVVYVVTSHGVSTKYLNFTASENTRVMOHOYQVSNLQORSLLPSLVLVVPV 976
 QY 961 RINQVIMDRPOVTFSENLSCTCHKERLPSHSDFLAEIRKAPVNVCSIAVQRIQCDIP 1020
 DB 977 RINQVIMDRPOVTFSENLSCTCHKERLPSHSDFLAEIRKAPVNVCSIAVQRIQCDIP 1036
 QY 1021 FFGIOEFNATLKNLSFDMWIKTSHNHLIVSTABEILFENDSVFTLLPGQAFVRSQET 1080
 DB 1037 FFGIOEFNATLKNLSFDMWIKTSHNHLIVSTABEILFENDSVFTLLPGQAFVRSQET 1096
 QY 1081 KVEPPEVNPPLIYGVSSVGLLALITAAIYKGFPRQYKDMMSSEGGPGGAEPO 1137
 DB 1097 KVEPPEVNPPLIYGVSSVGLLALITAAIYKGFPRQYKDMMSSEGGPGGAEPO 1153

RESULT 9
 US-09-688-307A-3
 ; Sequence 3, Application US/09688307A

; Patent No. 6432404
 ; GENERAL INFORMATION:
 ; APPLICANT: Gallatin, Michael W.
 ; APPLICANT: Van der Vlieten, Monica
 ; TITLE OF INVENTION: No. 6432404el Human Beta-2
 ; FILE REFERENCE: 27866/36646
 ; CURRENT FILING DATE: 2000-10-13
 ; PRIOR APPLICATION NUMBER: US/09/688, 307A
 ; PRIOR FILING DATE: 1998-11-16
 ; PRIOR APPLICATION NUMBER: 08/605,672
 ; PRIOR FILING DATE: 1996-02-22
 ; PRIOR APPLICATION NUMBER: 08/173,497
 ; PRIOR FILING DATE: 1993-12-23
 ; PRIOR APPLICATION NUMBER: 08/286,889
 ; PRIOR FILING DATE: 1994-08-05
 ; PRIOR APPLICATION NUMBER: 08/362,652
 ; PRIOR FILING DATE: 1994-12-21
 ; PRIOR APPLICATION NUMBER: 08/943,363
 ; PRIOR FILING DATE: 1997-10-03
 ; NUMBER OF SEQ ID NOS: 114
 ; SOFTWARE: Patentin Ver. 2.0
 ; SEQ ID NO 3
 ; LENGTH: 1153
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-688-307A-3

Query Match 99.8%; Score 5862; DB 4; Length 1153;
 Best Local Similarity 99.3%; Pred. No. 0;
 Matches 1129; Conservative 7; Mismatches 1; Indels 0; Gaps 0;

QY 1 FNLDTENAMTFQENARFGQSVVVOLOGSRVVGAPQEIYVAAORGSLYOCDSYSGCEPI 60
 DB 17 FNLDTENAMTFQENARFGQSVVVOLOGSRVVGAPQEIYVAAORGSLYOCDSYSGCEPI 76
 QY 61 RLQVPEAVNMSLGLSLAATSPOLLACGPTVHQCSENTYVKGICFLFGSNLRQOPQK 120
 DB 77 RLQVPEAVNMSLGLSLAATSPOLLACGPTVHQCSENTYVKGICFLFGSNLRQOPQK 136
 QY 121 FPEALRGCPQEDSDIAFLVDGSGSIIIPHDFRAKEFIPTVMEQLKSKTLFSLMOYSEEF 180
 DB 137 FPEALRGCPQEDSDIAFLVDGSGSIIIPHDFRAKEFIPTVMEQLKSKTLFSLMOYSEEF 196
 QY 181 RHFTFKFQNNPNRSLIKPITQLGRTHTATGIRKVVRELFTNTNGARKNAFKILILI 240
 DB 197 RHFTFKFQNNPNRSLIKPITQLGRTHTATGIRKVVRELFTNTNGARKNAFKILILI 256
 QY 241 TDGEKFGDPLGYEDVIPEADREGVIRYIVGVDARFSEKSRQELNTVASKPRDHVFOIN 300
 DB 257 TDGEKFGDPLGYEDVIPEADREGVIRYIVGVDARFSEKSRQELNTVASKPRDHVFOIN 316
 QY 301 NFEALKTIONQUREKIPIAIEGTOTGSSSFEHMSQEGFSAITNSGPLSTVGSYDMAG 360


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Db 317 NEALKTIONOLREKIFALEGTOTGSSSEFHEMSEGEFSAITNSGPIILSTVGSYDMAG 376
Qy 361 GVFLYTSKESKSTFINMTNRVDSMDNDAYLGAAAIILRNVOGLVGAIPRYOHIGLVAMER 420
Db 377 GVFLYTSKESKSTFINMTNRVDSMDNDAYLGAAAIILRNVOGLVGAIPRYOHIGLVAMER 436
Qy 421 QNTGMESNANVKGTOIGAYFGASLCSVDVDSNGSTDLVLIGAPHYEEOTRGQVSVCP 480
Db 437 QNTGMESNANVKGTOIGAYFGASLCSVDVDSNGSTDLVLIGAPHYEEOTRGQVSVCP 496
Qy 481 PRGQRRMOCDAVLVGEQOPMGRFGAALTIVLGDVNGDKLTVAIGAPEGEDNRGAIVYLF 540
Db 497 PRGQRRMOCDAVLVGEQOPMGRFGAALTIVLGDVNGDKLTVAIGAPEGEDNRGAIVYLF 556
Qy 541 HGTSGSGISPSHSORJAGSKLSPRLQYFGOSLSGGODLTMDGLVDTLVGAQGHVLLRSO 600
Db 557 HGTSGSGISPSHSORJAGSKLSPRLQYFGOSLSGGODLTMDGLVDTLVGAQGHVLLRSO 616
Qy 601 PVLRYKAIMENREVARNVFECNDQVVKGEAGEVRCVLAHVCKSTRDLREGQIQSVYT 660
Db 617 PVLRYKAIMENREVARNVFECNDQVVKGEAGEVRCVLAHVCKSTRDLREGQIQSVYT 676
Qy 661 YDLALDSGRPHSAVAVNETKNSRROTQVGLTQTCETLKLQPNCTIEDPVSPIVRLNF 720
Db 677 YDLALDSGRPHSAVAVNETKNSRROTQVGLTQTCETLKLQPNCTIEDPVSPIVRLNF 736
Qy 721 SLVGTPLSAFGNRLPVLAEDAOQLFTALPFEGKCGNDNCCDDLSITTSFMSLDCLVNG 780
Db 737 SLVGTPLSAFGNRLPVLAEDAOQLFTALPFEGKCGNDNCCDDLSITTSFMSLDCLVNG 796
Qy 781 GPREFNVTYVRNDGSDSKRTQVTFEPLDLSYRKVSTLONORSQSWRLACESASTEV 840
Db 797 GPREFNVTYVRNDGSDSKRTQVTFEPLDLSYRKVSTLONORSQSWRLACESASTEV 856
Qy 841 SGALKSTSCSINHPITPENSEVTFNITFDVDSKASLGNKLLKANTYSENMRITKTEF 900
Db 857 SGALKSTSCSINHPITPENSEVTFNITFDVDSKASLGNKLLKANTYSENMRITKTEF 916
Qy 901 QLELPKXVAVVWVVTSHGVSTKYLNFASENTSRVMOHOVQVSNLORSPLSLVFLVPV 960
Db 917 QLELPKXVAVVWVVTSHGVSTKYLNFASENTSRVMOHOVQVSNLORSPLSLVFLVPV 976
Qy 961 RLNQTVIMDRPOVTFSENLSTCHTKERLPSHSDFLAELRKAVNCSIAVCCRIQCDIP 1020
Db 977 RLNQTVIMDRPOVTFSENLSTCHTKERLPSHSDFLAELRKAVNCSIAVCCRIQCDIP 1036
Qy 1021 FPGIOEFNATLKGNSLSPDWYIKTSHNHLIYSTAELFNDSVFTLLPGQGAIVRSQTER 1080
Db 1037 FPGIOEFNATLKGNSLSPDWYIKTSHNHLIYSTAELFNDSVFTLLPGQGAIVRSQTER 1096
Qy 1081 KYEPFVNPPLIYGVSSVGGILLLITLALYKLGFEKQYKDMSEGGPBAEPQ 1137
Db 1097 KYEPFVNPPLIYGVSSVGGILLLITLALYKLGFEKQYKDMSEGGPBAEPQ 1153

```

RESULT 10
US-08-476-062A-43
Sequence 43, Application US/08476062A

GENERAL INFORMATION:
APPLICANT: Airtout, M. Amin
TITLE OF INVENTION: CONTROLLING CELLULAR IMMUNE/INFLAMMATORY
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESSES:
ADDRESSEES: Fish & Richardson P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette

```

COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/476,062A
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/216,081
FILING DATE: 21-MAR-1994
APPLICATION NUMBER: 07/637,830
FILING DATE: 04-JAN-1991
APPLICATION NUMBER: 07/539,842
FILING DATE: 18-JUN-1990
APPLICATION NUMBER: 07/212,573
FILING DATE: 28-JUN-1988
ATTORNEY/AGENT INFORMATION:
NAME: Freeman, John W.
REGISTRATION NUMBER: 29,066
REFERENCE/DOCKET NUMBER: 00786/068003
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
TELEFAX: 617/542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 1152 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: internal
US-08-476-062A-43

```

Query Match 99.2%; Score 5831.5; DB 2; Length 1152;

Best Local Similarity 99.0%; Pred No. 0; Mismatches 3; Indels 1; Gaps 1;

```

Db 1 FNDLENAMTPOENARFGOSVVOLOGSRVVGAPQEIYAANORGLYXCDYSTGSCBPI 60
Qy 17 FNDLENAMTPOENARFGOSVVOLOGSRVVGAPQEIYAANORGLYXCDYSTGSCBPI 76
Db 61 RLQVPEAVNMSLGLSLAATTSPQLLACGPTVHOTCSNTYVKGICLFGSNLRQOPK 120
Qy 77 RLQVPEAVNMSLGLSLAATTSPQLLACGPTVHOTCSNTYVKGICLFGSNLRQOPK 136
Db 121 PFEALRGCPQESDIAFLVDSGSGIIPHDFRAKEPISVTMBOUKSKTLLFSLMYSEBF 180
Qy 137 PFEALRGCPQESDIAFLVDSGSGIIPHDFRAKEPISVTMBOUKSKTLLFSLMYSEBF 196
Db 181 RHFTPEKEFQNNPNRSLIKPIITOLGRTHTATGIRKVVRELFNITNGARKNAFKILILI 240
Qy 197 RHFTPEKEFQNNPNRSLIKPIITOLGRTHTATGIRKVVRELFNITNGARKNAFKILIVI 256
Db 241 TDGEKFGDPLGYEDVPEADREGVIRYVIGVDARFSEKSRQELNTVASKPRDHVFOIN 300
Qy 257 TDGEKFGDPLGYEDVPEADREGVIRYVIGVDARFSEKSRQELNTVASKPRDHVFOIN 316
Db 301 NEALKTIONOLREKIFALEGTOTGSSSEFHEMSEGEFSAITNSGPIILSTVGSYDMAG 360
Qy 317 NEALKTIONOLREKIFALEGTOTGSSSEFHEMSEGEFSAITNSGPIILSTVGSYDMAG 376
Db 361 GVFLYTSKESKSTFINMTNRVDSMDNDAYLGAAAIILRNVOGLVGAIPRYOHIGLVAMER 420
Qy 377 GVFLYTSKESKSTFINMTNRVDSMDNDAYLGAAAIILRNVOGLVGAIPRYOHIGLVAMER 436
Db 421 QNTGMESNANVKGTOIGAYFGASLCSVDVDSNGSTDLVLIGAPHYEEOTRGQVSVCP 480
Qy 437 QNTGMESNANVKGTOIGAYFGASLCSVDVDSNGSTDLVLIGAPHYEEOTRGQVSVCP 496
Db 481 PRGQRRMOCDAVLVGEQOPMGRFGAALTIVLGDVNGDKLTVAIGAPEGEDNRGAIVYLF 540
Qy 497 PRGQRRMOCDAVLVGEQOPMGRFGAALTIVLGDVNGDKLTVAIGAPEGEDNRGAIVYLF 555
Db 541 HGTSGSGISPSHSORJAGSKLSPRLQYFGOSLSGGODLTMDGLVDTLVGAQGHVLLRSO 600

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556 HGTSGSGISPSHSORLAGSKLSPRLQYFGQSLSGGODLTMDGLVDLTVAQGHVILLRSQ 615
QY PVLRYVAIMEFNRREYARVNECNDQVVKKEAGEVRCVCHVQKSTRDRRREGQIOSVVT 660
Db 616 PVLRYVAIMEFNRREYARVNECNDQVVKKEAGEVRCVCHVQKSTRDRRREGQIOSVVT 675
QY 661 YDLALDSGRPHSAVFNENKSTRQTOVLGLTQTCETKLQLPNCIEDVSPVILRLNF 720
Db 676 YDLALDSGRPHSAVFNENKSTRQTOVLGLTQTCETKLQLPNCIEDVSPVILRLNF 735
QY 721 SLVGTPLSAFNGRLPVLAEDAQRLLFTALPFEKNCNDNI CODDLSTFSPMSLDCLVYG 780
Db 736 SLVGTPLSAFNGRLPVLAEDAQRLLFTALPFEKNCNDNI CODDLSTFSPMSLDCLVYG 795
QY 781 GPREFNVTYVRNDEGDSYRTQVTFPPDLDSYRKVSTLONORSORSMRLACESASTEV 840
Db 796 GPREFNVTYVRNDEGDSYRTQVTFPPDLDSYRKVSTLONORSORSMRLACESASTEV 855
841 SGALKSTSCSINHPIPPENSEVTENITFDVDSKASLGKLLKAVYTSNNMERTNKTEF 900
856 SGALKSTSCSINHPIPPENSEVTENITFDVDSKASLGKLLKAVYTSNNMERTNKTEF 915
QY 901 QLELPKRYAVMYVTSIGVSTKTLNFTASBNTSRVMOHOVQVSNLQORSPISLVFLVPY 960
Db 916 QLELPKRYAVMYVTSIGVSTKTLNFTASBNTSRVMOHOVQVSNLQORSPISLVFLVPY 975
QY 961 RLNQYIMDRPOVTFSENLSSTCHTKERLPSHSDPLAELKAPVNCISIVCORICODIP 1020
Db 976 RLNQYIMDRPOVTFSENLSSTCHTKERLPSHSDPLAELKAPVNCISIVCORICODIP 1035
QY 1021 FFGIOEFNATLKGNSLSPDWYIKTSHNLLIVSTABILFNDSVFTLLPGGAFVRSOTET 1080
Db 1036 FFGIOEFNATLKGNSLSPDWYIKTSHNLLIVSTABILFNDSVFTLLPGGAFVRSOTET 1095
QY 1081 KYEPFEVNPPLIIVGSSVGGILLALITLALYKLGFFKQYKQDMSEGGPPGAEPQ 1137
Db 1096 KYEPFEVNPPLIIVGSSVGGILLALITLALYKLGFFKQYKQDMSEGGPPGAEPQ 1152

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RESULT 11

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PCT-US96-01314-43
; Sequence 43, Application PC/TUS9601314
; GENERAL INFORMATION:
; APPLICANT: M. Amin Arnaout
; TITLE OF INVENTION: METHODS FOR IDENTIFYING INTEGRIN
; TITLE OF INVENTION: ANTAGONISTS
; NUMBER OF SEQUENCES: 78
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 MB
; COMPUTER: IBM PS/2 Model 50Z or 55SX
; OPERATING SYSTEM: MS-DOS (Version 5.0)
; SOFTWARE: Wordperfect (Version 5.1)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/01314
; FILING DATE: 30-JAN-96
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/380,167
; FILING DATE: 30-JAN-95
; ATTORNEY/AGENT INFORMATION:
; NAME: John W. Freeman
; REGISTRATION NUMBER: 29,066
; REFERENCE/DOCKET NUMBER: 00786/267001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 542-5070
; TELEFAX: (617) 542-8906

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; TELEX: 200154
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1152
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; PCT-US96-01314-43
Query Match 99.2%; Score 5831.5; DB 5; Length 1152;
Best Local Similarity 99.0%; Pred. No. 0;
Matches 1126; Conservative 7; Mismatches 3; Indels 1; Gaps 1;
QY 1 PNLDTENAMTPOENARFGQSVVVOLOGSRVYVGAPOEIVANQSGSLYQCDYSTGSCBEI 60
Db 17 PNLDTENAMTPOENARFGQSVVVOLOGSRVYVGAPOEIVANQSGSLYQCDYSTGSCBEI 76
QY 61 RLQVPEAVNMSLGLSLAATTSPOLLACGPTVHQTCSENTYVKGLCFSGNLROQPOK 120
Db 77 RLQVPEAVNMSLGLSLAATTSPOLLACGPTVHQTCSENTYVKGLCFSGNLROQPOK 136
QY 121 PFEALRGCPQEDSDIAFLVDGSGSII PHDFRAKEFI STVMEQLKSKTLPFLMOYSEEF 180
Db 137 PFEALRGCPQEDSDIAFLVDGSGSII PHDFRAKEFI STVMEQLKSKTLPFLMOYSEEF 196
QY 181 R1HFTFEKFPQNNPNRSLIKPITOLLGRTHTATGIRKVVREL FNITNGARKNAFKILILI 240
Db 197 R1HFTFEKFPQNNPNRSLIKPITOLLGRTHTATGIRKVVREL FNITNGARKNAFKILIVI 256
QY 241 TGEKRGDGLGEDYIPEADREGVIRYVGVGDARSEKSRBELNTVASKPRDHYFOIN 300
Db 257 TGEKRGDGLGEDYIPEADREGVIRYVGVGDARSEKSRBELNTVASKPRDHYFOIN 316
QY 301 NFEALKTIONOLREKIFAIETGOTGSSSF EHEMSOEGPSAITSNGPLSTVGSYDMAG 360
Db 317 NFEALKTIONOLREKIFAIETGOTGSSSF EHEMSOEGPSAITSNGPLSTVGSYDMAG 376
QY 361 GVFLYTSKEKSTFINMTVRVDSDMNDAYILGYAAIILRNVOGLVYGAPRYOHIGLVAMER 420
Db 377 GVFLYTSKEKSTFINMTVRVDSDMNDAYILGYAAIILRNVOGLVYGAPRYOHIGLVAMER 436
QY 421 QNTGWESNANVKGIOIGAFEGASLCSDVDVDSNGSTDLVIGAPHYRETRGGQVSCVL 480
Db 437 QNTGWESNANVKGIOIGAFEGASLCSDVDVDSNGSTDLVIGAPHYRETRGGQVSCVL 496
QY 481 PPGORAROCDAVLVGEQGPWGRFGAALTGVGVNGDKLTGVAIGAPEEONRGAVYLF 540
Db 497 PPG-RARWQCDVILVGEQGPWGRFGAALTGVGVNGDKLTGVAIGAPEEONRGAVYLF 555
QY 541 HGTSGSGISPSHSORLAGSKLSPRLQYFGQSLSGGODLTMDGLVDLTVAQGHVILLRSQ 600
Db 556 HGTSGSGISPSHSORLAGSKLSPRLQYFGQSLSGGODLTMDGLVDLTVAQGHVILLRSQ 615
QY 601 PVLRYVAIMEFNRREYARVNECNDQVVKKEAGEVRCVCHVQKSTRDRRREGQIOSVVT 660
Db 616 PVLRYVAIMEFNRREYARVNECNDQVVKKEAGEVRCVCHVQKSTRDRRREGQIOSVVT 675
QY 661 YDLALDSGRPHSAVFNENKSTRQTOVLGLTQTCETKLQLPNCIEDVSPVILRLNF 720
Db 676 YDLALDSGRPHSAVFNENKSTRQTOVLGLTQTCETKLQLPNCIEDVSPVILRLNF 735
QY 721 SLVGTPLSAFNGRLPVLAEDAQRLLFTALPFEKNCNDNI CODDLSTFSPMSLDCLVYG 780
Db 736 SLVGTPLSAFNGRLPVLAEDAQRLLFTALPFEKNCNDNI CODDLSTFSPMSLDCLVYG 795
QY 781 GPREFNVTYVRNDEGDSYRTQVTFPPDLDSYRKVSTLONORSORSMRLACESASTEV 840
Db 796 GPREFNVTYVRNDEGDSYRTQVTFPPDLDSYRKVSTLONORSORSMRLACESASTEV 855
QY 841 SGALKSTSCSINHPIPPENSEVTENITFDVDSKASLGKLLKAVYTSNNMERTNKTEF 900
Db 856 SGALKSTSCSINHPIPPENSEVTENITFDVDSKASLGKLLKAVYTSNNMERTNKTEF 915

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Qy 901 QLELPKAVVWVWVTSHGSTKYNFTASENTRVMOHOYOVSNLQORSLPLSLVFLVPV 960
Db 916 QLELPKAVVWVWVTSHGSTKYNFTASENTRVMOHOYOVSNLQORSPPLSLVFLVPV 975
Qy 961 RLNQIVIMDRPOVTFSESNLSSTCHTKERLPSHSDFLAELRKAPVWNCSTAVCORIQCDIP 1020
Db 976 RLNQIVIMDRPOVTFSESNLSSTCHTKERLPSHSDFLAELRKAPVWNCSTAVCORIQCDIP 1035
Qy 1021 FPGIOEFNATLKGNLSFPMWIKTSHNHLIYSTAEILFNDVSFTLLPGOGAFVRSQTEI 1080
Db 1036 FPGIOEFNATLKGNLSFPMWIKTSHNHLIYSTAEILFNDVSFTLLPGOGAFVRSQTEI 1095
Qy 1081 KYEPFEVNPPLPLIVGSSVGGLLLLALITPAALYKLGFFKQOYKDMMSBEGPPGAEPO 1137
Db 1096 KYEPFEVNPPLPLIVGSSVGGLLLLALITPAALYKLGFFKQOYKDMMSBEGPPGAEPO 1152

RESULT 12
5424399-2
Patent No. 5424399
APPLICANT: ARNAOUT, M. AMIN
TITLE OF INVENTION: HUMAN CR3a/b HETERODIMERS
NUMBER OF SEQUENCES: 12
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/78,871
FILING DATE: 16-JUN-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 539,842
FILING DATE: 18-JUN-1990
APPLICATION NUMBER: 212,573
FILING DATE: 28-JUN-1988
SEQ ID NO:2
LENGTH: 1152
5424399-2

Query Match 99.2%; Score 5831.5; DB 6; Length 1152;
Best Local Similarity 99.0%; Pred. No. 0;
Matches 1126; Conservative 7; Mismatches 3; Indels 1; Gaps 1;

Qy 1 FNDTENAMTFQENARFGQSVVOLQSSRVVGAPOEIVANORGSLYOCDDYSTGCEPI 60
Db 17 FNDTENAMTFQENARFGQSVVOLQSSRVVGAPOEIVANORGSLYOCDDYSTGCEPI 76
Qy 61 RLQVPVEAVNMSLGLSLAATSPPOLLAGCPVTHQTCSENTYVKGCLFGLGSLRQOPK 120
Db 77 RLQVPVEAVNMSLGLSLAATSPPOLLAGCPVTHQTCSENTYVKGCLFGLGSLRQOPK 136
Qy 121 FPFALGCCPOEDSDIAFLVDGSGSIIPHDFRAKEPISTVMEQLKSKTFLSIMOYSEEF 180
Db 137 FPFALGCCPOEDSDIAFLVDGSGSIIPHDFRAKEPISTVMEQLKSKTFLSIMOYSEEF 196
Qy 181 RHIFTEKEPONNNPNSLSIKETIOLGRTHTATGIRKRVVRELNINNGARAKNAFKLLIL 240
Db 197 RHIFTEKEPONNNPNSLSIKETIOLGRTHTATGIRKRVVRELNINNGARAKNAFKLLIL 256
Qy 241 TDEKEFGDPLGYEDVLPADREGEVIRYIGVDAFSEKSEKROELINTVASKPRPDHYFOIN 300
Db 257 TDEKEFGDPLGYEDVLPADREGEVIRYIGVDAFSEKSEKROELINTVASKPRPDHYFOIN 316
Qy 301 NFEALKTIONQLREKIFALIEGTOTGSSSSFEHEMSOEGFSAATISNGPLISTVGSYDMAG 360
Db 317 NFEALKTIONQLREKIFALIEGTOTGSSSSFEHEMSOEGFSAATISNGPLISTVGSYDMAG 376
Qy 361 GVLPLYSKEKSTFINMTRVSDMDNDAYLGYAAAILLRNROSIVLGAAPRQIHGLVAMFR 420
Db 377 GVLPLYSKEKSTFINMTRVSDMDNDAYLGYAAAILLRNROSIVLGAAPRQIHGLVAMFR 436
Qy 421 QNTGMESNANVAGTOIGAFGASLCSVDVDSNGSTDVLVIGAPHYEQTRGGQGVSCPL 480
Db 437 QNTGMESNANVAGTOIGAFGASLCSVDVDSNGSTDVLVIGAPHYEQTRGGQGVSCPL 496
Qy 481 PRGQARWOCDAVLXGEOGPWGRFGAALTVLGDVNGDKLTDVAIGAEGEDNRGAAYLF 540

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Db 497 PRG-QARWOCDAVLXGEOGPWGRFGAALTVLGDVNGDKLTDVAIGAEGEDNRGAAYLF 555
Qy 541 HGTSGSGISPSHSQRIAGSKLSPRLQYFGQSLSGGQDITMDLVDLTGCAQGHVLLLRQ 600
Db 556 HGTSGSGISPSHSQRIAGSKLSPRLQYFGQSLSGGQDITMDLVDLTGCAQGHVLLLRQ 615
Qy 601 PYLRKAIWNEFNPRAVNFECNDQVYKKEAGEVRYCLHVOKSTRDLRREGQIOSVT 660
Db 616 PYLRKAIWNEFNPRAVNFECNDQVYKKEAGEVRYCLHVOKSTRDLRREGQIOSVT 675
Qy 661 YDLADSGRPHRAVNFENKSTRQTOVLGLTQTCETKLQLPNCIBDPVPIVLRNF 720
Db 676 YDLADSGRPHRAVNFENKSTRQTOVLGLTQTCETKLQLPNCIBDPVPIVLRNF 735
Qy 721 SLVGTPLSAFGLRPLAEDAORLFTALFPFKNGNDNI CODDLSITPSFMSLCLVYG 780
Db 736 SLVGTPLSAFGLRPLAEDAORLFTALFPFKNGNDNI CODDLSITPSFMSLCLVYG 795
Qy 781 GREFNVTYVANDGEDSYRTQVTFEFPDLISYKRVSTIQNORSQSWRLACESASTEV 840
Db 796 GREFNVTYVANDGEDSYRTQVTFEFPDLISYKRVSTIQNORSQSWRLACESASTEV 855
Qy 841 SGALSTSCSINHPIFPENSEVTENITPDVDSKASLGNKLLKAVTSENMPRTNKTEF 900
Db 856 SGALSTSCSINHPIFPENSEVTENITPDVDSKASLGNKLLKAVTSENMPRTNKTEF 915
Qy 901 QLELPKAVVWVWVTSHGSTKYNFTASENTRVMOHOYOVSNLQORSLPLSLVFLVPV 960
Db 916 QLELPKAVVWVWVTSHGSTKYNFTASENTRVMOHOYOVSNLQORSPPLSLVFLVPV 975
Qy 961 RLNQIVIMDRPOVTFSESNLSSTCHTKERLPSHSDFLAELRKAPVWNCSTAVCORIQCDIP 1020
Db 976 RLNQIVIMDRPOVTFSESNLSSTCHTKERLPSHSDFLAELRKAPVWNCSTAVCORIQCDIP 1035
Qy 1021 FPGIOEFNATLKGNLSFPMWIKTSHNHLIYSTAEILFNDVSFTLLPGOGAFVRSQTEI 1080
Db 1036 FPGIOEFNATLKGNLSFPMWIKTSHNHLIYSTAEILFNDVSFTLLPGOGAFVRSQTEI 1095
Qy 1081 KYEPFEVNPPLPLIVGSSVGGLLLLALITPAALYKLGFFKQOYKDMMSBEGPPGAEPO 1137
Db 1096 KYEPFEVNPPLPLIVGSSVGGLLLLALITPAALYKLGFFKQOYKDMMSBEGPPGAEPO 1152

RESULT 13
US-08-476-062A-44
Sequence 44, Application US/08476062A
Patent No. 5877275
GENERAL INFORMATION:
APPLICANT: Arnaout, M. Amin
TITLE OF INVENTION: CONTROLLING CELLULAR IMMUNE/INFLAMMATORY
TITLE OF INVENTION: RESPONSES WITH BETA2 INTEGRINS
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSSEE: Fish & Richardson P. C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/476,062A
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/216,081
FILING DATE: 21-MAR-1994
APPLICATION NUMBER: 07/637,830
FILING DATE: 04-JAN-1991
APPLICATION NUMBER: 07/539,842

```

FILING DATE: 18-JUN-1990
 APPLICATION NUMBER: 07/212,573
 FILING DATE: 28-JUN-1988
 ATTORNEY/AGENT INFORMATION:
 NAME: Freeman, John W.
 REGISTRATION NUMBER: 29,066
 REFERENCE/DOCKET NUMBER: 00786/068003
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 617/542-5070
 TELEFAX: 617/542-8906
 TELEX: 200154
 INFORMATION FOR SEQ ID NO: 44:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1163 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-476-062A-44

Query Match 59.0%; Score 3469; DB 2; Length 1163;
 Best Local Similarity 61.0%; Pred. No. 6.2e-284;
 Matches 689; Conservative 141; Mismatches 293; Indels 6; Gaps 4;

QY 1 FNDUTENAMFQENAGFGQSVVQLQGRVYVGAPOEIVANQGRSLYQCDYSTGSCPT 60
 DB 20 FNDTEELTFRVDSAGFGDSVVQYANSMVVGAPOKITANOTGGLYQCGSTGACEPI 79
 QY 61 RLQVPEAVVMSGLSLAATSPOLLACGPTVHOTCSENTYVKGCLFLGSLNLQOQPOK 120
 DB 80 GLQVPEAVVMSGLSLAATSPOLLACGPTVHOTCSENTYVKGCLFLGSLNLQOQPOK 137
 QY 121 FPRALGCPQEDSDIAFLVDSGSIIPHDFRAKEPSTVMEOLKSKSLFSLMOYSEEP 180
 DB 138 LPIVSRQCEPQEDIDYFLIGSGSISRNFATMMNFRAVISQFQPSPTGSLMOGSKNF 197
 QY 181 RIHFTEFQNNPNSLIPITQLGRTATGIRKVVARELNITNGARKNAFKLILILI 240
 DB 198 QTHFTEEFRTSNPLSLASVHQLQGYTATAIONVVRHLPHASYGARRDAKTLIYI 257
 QY 241 TDGEKFGDPLGYEDVIPEADREGVIRYVIGVDAFSEKSEKROELNIVASKEPPDHFOIN 300
 DB 258 TDGKKGDSIDYKDVIPMAADGILIRYALGVGLAFQNRNSWKELENDASPESEHIFKAE 317
 QY 301 NFEALKTIONQREKIFALEGTOTGSSSPFHEMSQEGFSAAITNSGPLSTVGSYDWAQ 360
 DB 318 DFDALDIOQLQEKIFALRGTEFTSSSELEMAQEGFAVFTPGPVLGAVGSFTWSG 377
 QY 361 GVLPLYSKESKSTINMTRVSDMNDAYLGYAAIILANRQSLVGLAPRYQHIGLVAMFR 420
 DB 378 GAFLYPPNMSPTFIMNSQENVMDRDSYGLSTELALMKVGQSLVGLAPRYQHGKAVIFP 437
 QY 421 QNTGMSNNVNGTQIAGYFGASLCSVDVDSNGSTDLVLIGA PHYEOTRGGOVSCPI 480
 DB 438 QVSRQRMRALEVGTQIGSIFGASLCSVDVDTGSTDVLIGAPHYEOTRGGOVSCPI 497
 QY 481 PRQQRARQCDVLYBEGOPMGRFGAALTVLGDVNGDKLTDLVAIGAPEGEDNRGAVYLE 540
 DB 498 PRGMR-RMWCDAVLYBEGOPMGRFGAALTVLGDVNGDKLTDLVIGAPGSEENRGAVYLE 556
 QY 541 HGTSGSGISPSHQRIAGSLKSLRLQYFGQSLSGGQDPLMDGLVDLTVAQGVILLRSQ 600
 DB 557 HGVLAGSISPSHQRIAGSLKSLRLQYFGQSLSGGQDPLMDGLVDLTVAQGVILLRSQ 616
 QY 601 PVLRAVIAEFNREVARANVFECNDQVYKKEAGEVAVCLHVQSKTRDRREGQIOSVYT 660
 DB 617 PVLAVGSMQFIABEIPKRAFECREOVVSCQTLVQSNICLYIDKRSKNLGSDLDQSVT 676
 QY 661 YDLALDSGRPHSAVNETKNSRRQTOVLGLTQTCETLLQLPNCIEDPVPSPVLRINF 720
 DB 677 LDALALDGRSPRATFOETKNSRLSRVVLGLKAHCENFLLPSCVDSVTITILRLNF 736
 QY 721 SLVGTLSAFGNLRPVLAEDAGLFTALPFEKXCGNDNICQDLSITFSFMSLDCLVVG 780

DB 737 TLVGEKELAFRMLRPMALAAQRYFTASLPFEKNCAGADI CODNIGISFSPGLKSLVVG 796
 QY 781 GPREFVTVTVNDEGDSYRTQVTFEFPDLISYRKVSTLQNRQSRWRLACESASTEV 840
 DB 797 SNLELMAEVMWMDGEDSGITITTSHPAGLSYRYABEQKQGLRSLHTDSDAPVG-- 854
 QY 841 SGALKSTSCSINHPIFPENSEVTNITFDVDSKASIGNKLLKANVTSNNMPTNKTEF 900
 DB 855 SCQTMSTSCRINHLIFRGAQITFLATFDVSPKAVYGDRLTLTANVSENNTPRTSKTF 914
 QY 901 QLELPVKAVVWVYTSHTGISTYLNFTAS-ENTSRVMOQYOVSNLQGSRLISLVELVP 959
 DB 915 QLELPVKAVVYVVSSEHPTKYLNFSSESEKESHVAMRYOVNNGQDLVPSINFWP 974
 QY 960 VRLNQTVIDRPOVTFSENLSTCHTERLPESHDFELARAPVNCISAVCORIQCDI 1019
 DB 975 VELNQAAVMDDVESHQPSLRCSSEKAPASDFLAIHQNPVUDGCIACLRRCV 1034
 QY 1020 PFGIOEENFATLKNLSFDWYIKTSHNLLIVSTAEILFNDSVFTLLPGQAIFYRSQTE 1079
 DB 1035 PFSVQEEIDFTLKNLSFGWVRQLQKQVSVVAEITFDTSVYSQLPGQAFMRAQTT 1094
 QY 1080 TKVEPEVENPLPIYGVSGGLLALITLALYKLGFPKQYKQKMS 1128
 DB 1095 TVLEKYKVNPPPLIVGSSIGLILLALITLAVLYKGVFPKQYKEMEE 1143

RESULT 14
 PCT-US96-01314-44
 Sequence 44, Application PC/TUS9601314
 GENERAL INFORMATION:
 APPLICANT: M. Amin Arnaout
 TITLE OF INVENTION: METHODS FOR IDENTIFYING INTEGRIN
 TITLE OF INVENTION: ANTAGONISTS
 NUMBER OF SEQUENCES: 78
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Fish & Richardson P.C.
 STREET: 225 Franklin Street
 CITY: Boston
 STATE: Massachusetts
 COUNTRY: U.S.A.
 ZIP: 02110-2804
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.5" Diskette, 1.44 MB
 COMPUTER: IBM PS/2 Model 50Z or 55SX
 OPERATING SYSTEM: MS-DOS (Version 5.0)
 SOFTWARE: WordPerfect (Version 5.1)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US96/01314
 FILING DATE: 30-JAN-96
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/380,167
 FILING DATE: 30-JAN-95
 ATTORNEY/AGENT INFORMATION:
 NAME: John W. Freeman
 REGISTRATION NUMBER: 29,066
 REFERENCE/DOCKET NUMBER: 00786/267001
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 542-5070
 TELEFAX: (617) 542-8906
 TELEX: 200154
 INFORMATION FOR SEQ ID NO: 44:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1163
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: linear
 PCT-US96-01314-44

Query Match 59.0%; Score 3469; DB 5; Length 1163;
 Best Local Similarity 61.0%; Pred. No. 6.2e-284;
 Matches 689; Conservative 141; Mismatches 293; Indels 6; Gaps 4;

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QY 1 ENLDTENAMTFOENARAGSOSVVOLOGSRVYVGAQOEIVAAQORSLOVOCYSTGSCERI 60
DB 20 FNLDTBELTAFFRVDSSAGFSDSVVOYANVWVGAPOKIIAANQOTGLYOCYSTGACBPI 79
QY 61 RLOVPEAVNMSLGSLAATTSPPOLLAGPVTYHOTCSNTYVKGICPLFGSNLROQPOK 120
DB 80 GLOVPEAVNMSLGSLAATTSPPOLLAGPVTYHHCGRNMVLTGLCFLGLGPT--QUTLR 137
QY 121 FPEARLGCPOEDSDIAFLVDGSGSII PHDFRRAKEFISTVMEOLKSKTTLFSLMOYSEEF 180
DB 138 LPSVROECRQRODVLFLDGGSSISSRNFATMMNFRAVISOFOQPSIOFSLMOFSNKF 197
QY 181 RIHFTFKERQNNPNRSLIKPITQOLGRTHTATGIRKYVRELFNITNGARKNAFKILILI 240
DB 198 QHFTFEERFRSTNPLSLASVHOLQGFYTTATAIQNVVHRLFHASYGARARDAKILIVI 257
QY 241 TDGEKFGDPLGVEDYIPBDRREGVIRYVGVGDAPFSEKSRQELNVTVAASKPRDHVFOIN 300
DB 258 TDGKKEGSDLDKDYIPMADAGIIRYALGVGLAFQNRSMKELNDIASKPQEHFKYE 317
QY 301 NFEALKTIONOLREKIFAIEGTQOTGSSSFEHMSQEGFSAITNSGPLLSTVGSYDMAG 360
DB 318 DFDALKDIONOLREKIFAIEGTQOTGSSSFEHMSQEGFSAITNSGPLLSTVGSYDMAG 377
QY 361 GVFLYTSKEKSTFINMTVDSMDNDAYLGYAAIILRNVOVLVGAOPYOHIGLVAMFR 420
DB 378 GAFVLPNNMSPFINNSQENVDMDSDYLGSTELALMKGVQSLVIGAPRYQHTGKAVIFLT 437
QY 421 QNTGMESNANKGTQIGAYFGASLCSVDNSGSTDVLIGAPHYEGOTRGQOVSVCL 480
DB 438 QVSRQRMKAEBVTQIGYFGASLCSVDNDGSTDVLIGAPHYEGOTRGQOVSVCL 497
QY 481 PPGORAROCDAVLYXGEOGOWMRFQALTYLGDVNGDKLTDVAIGAPEEDRGRVLYE 540
DB 498 PPGWR-RMWCDAVLYXGEOGOWMRFQALTYLGDVNGDKLTDVAIGAPEEDRGRVLYE 556
QY 541 HCTSGSGISPSHSQRIAGSKLSBRLQYFGQSLSGQDGLTMDGLVDTVGAQGHVLLRSQ 600
DB 557 HGVLGSPISPSHSQRIAGSKLSBRLQYFGQSLSGQDGLTMDGLVDTVGAQGHVLLRSQ 616
QY 601 PVLRYKALIEPNPREVAVNECDQVYKKEGVEYVCLHVOXSTRDLREBQIOSVT 660
DB 617 PVLWGVSMQFI PAEIPRASAFECREQVSEBQTLVQSNICLYDKRSKNLGSRLDSSVT 676
QY 661 YDLALDSGRPHSAVFNENKSTRROTUVLGLTQTCETLKLQLPNCIEDPSPVILRLNF 720
DB 677 LBLALDPSRLSPRATFOETKNSLSRVVGLKACHCENFNLPSCEVDSVPTILRLNF 736
QY 721 SLVGTPLSAFGNLRVLAEDAQRLFTALPPEFKNCNDNICODDLSTESFMSLDCLVVG 780
DB 737 TLVGRKLLAFRNLRLPMLALAQRYFTASLPFEKNCADHICQDNLGISFPLKSLVVG 796
QY 781 GPREFNVTYVNRDGEDSRTOVTFPPDLSTRKYSTLONORSQSRMLACESASTEV 840
DB 797 SNLELAEVWVNDGSDSYGTTITTFSPHAGLSYRYVAEGQKQGLRSLHITCDSAVG-- 854
QY 841 SGALKSTGSIHNPITPENSEVENTTPVDKASLGNKLLKANTSNMRTKTEP 900
DB 855 SOGTWSTCRINHLIRGGQITFLATFDVSPRAVLDRLLLTANVSSENNTPRISTKTF 914
QY 901 QLELPKAVAVVWVTSHTKTLNFTAS-ENTSRVMOHQYVSNLQORSPLISLFLVP 959
DB 915 QLELPKAVAVVTSHTKTLNFTAS-ENTSRVMOHQYVSNLQORSPLISLFLVP 974
QY 960 VRLNQVIVDRPOVTSSENUSTGHTKERLPSHSDFLAELKAPVNVCSIAVCQIQCOT 1019
DB 975 VRLNQVIVDRPOVTSSENUSTGHTKERLPSHSDFLAELKAPVNVCSIAVCQIQCOT 1034
QY 1020 PPFQIOEENFATLKGSLSPWYIKTSHNHLIYSTAELIENDSVFTLPGQGFVNSOTE 1079
DB 1035 PPFQIOEENFATLKGSLSPWYIKTSHNHLIYSTAELIENDSVFTLPGQGFVNSOTE 1094
QY 1080 TKVEPEVNPPLPLIVGSSVGLLLALITPAALYKLGFFKQYKDMSE 1128

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DB 1095 TYLEKXKVNPPPLIVGSSIGGLLLALITAVLVYGVFFKQYKEMBE 1143

RESULT 15
US-08-173-497-4
; Sequence 4, Application US/08173497
; Patent No. 5437958
; GENERAL INFORMATION:
; APPLICANT: Gallatin, W. Michael
; APPLICANT: Van Der Vieren, Monica
; TITLE OF INVENTION: No. 5437958el Human 2 Integrin Alpha
; TITLE OF INVENTION: Subunit
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESS: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 233 S. Wacker Drive, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/173.497
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5437958and, Greta E.
; REGISTRATION NUMBER: 35.302
; REFERENCE/DOCKET NUMBER: 27866/31363
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-0448
; TELEFAX: 312-474-6300
; TELE: 25-3856
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1163 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-173-497-4

Query Match 58.6%; Score 3446; DB 1; Length 1163;
Best Local Similarity 60.8%; Pred. No. 5.5e-282;
Matches 686; Conservative 147; Mismatches 290; Indels 6; Gaps 4;

QY 1 ENLDTENAMTFOENARAGSOSVVOLOGSRVYVGAQOEIVAAQORSLOVOCYSTGSCERI 60
DB 20 FNLDTBELTAFFRVDSSAGFSDSVVOYANVWVGAPOKIIAANQOTGLYOCYSTGACBPI 79
QY 61 RLOVPEAVNMSLGSLAATTSPPOLLAGPVTYHOTCSNTYVKGICPLFGSNLROQPOK 120
DB 80 GLOVPEAVNMSLGSLAATTSPPOLLAGPVTYHHCGRNMVLTGLCFLGLGPT--QUTLR 137
QY 121 FPEARLGCPOEDSDIAFLVDGSGSII PHDFRRAKEFISTVMEOLKSKTTLFSLMOYSEEF 180
DB 138 LPSVROECRQRODVLFLDGGSSISSRNFATMMNFRAVISOFOQPSIOFSLMOFSNKF 197
QY 181 RIHFTFKERQNNPNRSLIKPITQOLGRTHTATGIRKYVRELFNITNGARKNAFKILILI 240
DB 198 QHFTFEERFRSTNPLSLASVHOLQGFYTTATAIQNVVHRLFHASYGARARDAKILIVI 257
QY 241 TDGEKFGDPLGVEDYIPBDRREGVIRYVGVGDAPFSEKSRQELNVTVAASKPRDHVFOIN 300
DB 258 TDGKKEGSDLDKDYIPMADAGIIRYALGVGLAFQNRSMKELNDIASKPQEHFKYE 317
QY 301 NFEALKTIONOLREKIFAIEGTQOTGSSSFEHMSQEGFSAITNSGPLLSTVGSYDMAG 360

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Db 318 DFDALXDIONQLEKJFAIEGTEETISSSFELEMAQEGPSAVFTPDGPVLGAVGSFTWSG 317
Qy 361 GVELYTSKEKSTFINMTBVDSDNDAYLGYAAIILRNRYQSLVLGAPRYOHIGLAMFR 420
Db 378 GAEFLYPPNMSPTFINMSQENVDKRDSTLGMKGVQSLVLGAPRYOHIGKAVIFI 437
Qy 421 QNTGMESNANVKTQIGAYFGASLCSVDVDSSTDLVLIGAPHYEOTRGQVSVCP 480
Db 438 QVSRQRMKAIEVIGTQIGSYFGASLCSVDVDTGSTDVLVLIGAPHYEOTRGQVSVCP 497
Qy 481 PRGQBARWOCDAVLGEQOQPMGRFGAALTVDVNGDKLTDVAIGAPGEDNRGAVYLE 540
Db 498 PRGWR-RMMCDALVYGEQGPWGRFGAALTVDVNGDKLTDVIGAPGEENRGAVYLE 556
Qy 541 HGTSGSGISPSHSQRIAGSKLSPRLQYFGQSLSGQDLTMDGLVDLTGACQHVLLRSQ 600
Db 557 HGVLGSPISPSHSQRIAGSKLSPRLQYFGQSLSGQDLTMDGLVDLTGACQHVLLRSQ 616
Qy 601 PVLRYKAIMEFNPREVARNVECNDOYVKGKAGEYVCLHVQKSTRDLREGQIQSVYT 660
617 PVLWGVSMQFIPAEIPRSAFECREQVSEQTLVQSNICLYIDKRSKNLLGSRDLQSVY 676
Qy 661 YDLALDSGRPHSAVFNETKSTRROTQVIGLTQTCETLKLQLPNCIEDPVSPIVRLNF 720
Db 677 LDIALAPGRISPRAIFQETKNRSLSRVYGLKAHCENFNLLPSCVEDSVPIILLRLNF 736
Qy 721 SLVGTPLSAFAGNLRPVLAEDQRLFTALPFEKNCGNNDICODDLSTFSFMSLDCIYVG 780
Db 737 TLVGRLLAFRNLRPMLAALAQRYFTASLPFEKNCADHICQDNLGISFSFGLKSLVYG 796
Qy 781 GPREFNVTYVRNDGEDSYRTQVTFPFLDLSYRKVSTLQNRQSRWRLACESASTEV 840
Db 797 SNELNAEVMWMDGEDSYGTTTFPSHPAGLSYRYVAEGQKQGLRSLHLTC--CSAPVG 854
Qy 841 SGALKSTSCSINHPIPPENSEVTFNITFDVDSKASLGNKLLKANTSENMPTKTEF 900
Db 855 SOGTWSTSCINHLIFRGGAQITFLATFDVSPRAVGLDRLLIANVSSENNIPRTSKTIF 914
Qy 901 QLELPVKVAVYVVTSHGVSTKYLNFTAS-ENTSRVMOHOYOVSNIGORSPLSTVLVY 959
Db 915 QLELPVKVAVYVVTSHGVSTKYLNFTAS-ENTSRVMOHOYOVSNIGORSPLSTVLVY 974
Qy 960 VRLNQTVIWDPRQVTSSENLSTCHTKERLPSHSDFLAELRKAIVVNCSTIACQRIQCDI 1019
Db 975 VELNQBAVWMDVESHQNPSELRCSSEKTIAPRASDFLAHQKNPVLDCSIAGCLFRCDV 1034
Qy 1020 PFRGIGEBERNATIKNLSFPMYIKTSHNHLIYSTAEILFNDVFTLLPQOGAFVRSQTE 1079
1035 PSFSVQBELEDFTLKGNLSFGWVROILQKRVSVVAEIIIFDTSVYSQLPQGEAFMRAQTI 1094
Qy 1080 TKVEPPEVNPPLPLIVGSSVSGLLLALITLALYKLGFFKQYKDMWSE 1128
1095 TVLEKRYKNPILPLIVGSSIGLILLALITAVLYKVGFFKQYKEMME 1143

Search completed: May 4, 2003, 13:39:24
Job time : 22.3333 secs